

JAN 8 1980

# OSTA-1 Payload Operations Control Center Annex

(NASA-TM-80912) PAYLOAD INTEGRATION PLAN  
PROGRAM FOR STS. OSTA-1 PAYLOAD OPERATIONS  
CONTROL CENTER ANNEX Final Report (NASA)  
127 P

N80-71638

00/16 Unclas  
45176

Final  
November 15, 1979



National Aeronautics and  
Space Administration

Lyndon B. Johnson Space Center  
Houston, Texas

CHANGE SHEET NO. 1 FOR  
OSTA-1 PAYLOAD DATA PACKAGE ANNEX  
MAY 23, 1980

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CHANGE INSTRUCTIONS

1. Remove the following listed page and replace it with the page attached to this change sheet.

Page	CR/D No.
9/10 (Drawing)	- - -

Note: A black bar in the right hand margin indicates the page has been changed.

2. Sign and date as indicated below and place this page behind the enclosed DOCUMENT REVISION log.

\_\_\_\_\_  
Signature of person incorporating changes  
in the document

\_\_\_\_\_  
Date

## REVISIONS

Rev. ltr.	Change number	Description	Date
Prelim	----		03/30/79
Final	----	By Authority of R. Moke/J. Plesums	11/15/79

OSTA-1 PAYLOAD OPERATIONS  
CONTROL CENTER ANNEX

LIST OF EFFECTIVE PAGES

PRELIMINARY . . .03/30/79  
FINAL . . . . .11/15/79

THE CURRENT STATUS OF THE DOCUMENT CHANGE PAGES IS AS SHOWN BELOW:

PAGE	DATE
ALL PAGES ISSUED 11/15/79.	

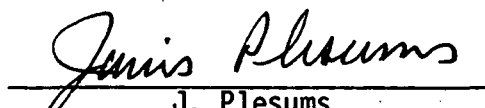
PAYLOAD OPERATIONS CONTROL, CENTER ANNEX,  
OFFICE OF SPACE AND TERRESTRIAL APPLICATIONS

PAYLOAD (OSTA-1)

FINAL

APPROVED BY:

 12/10/79  
R. Moke  
Payload Manager

 12/10/79  
J. Plesums  
Annex Book Manager

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
Lyndon B. Johnson Space Center  
Houston, Texas

November 15, 1979

## PREFACE

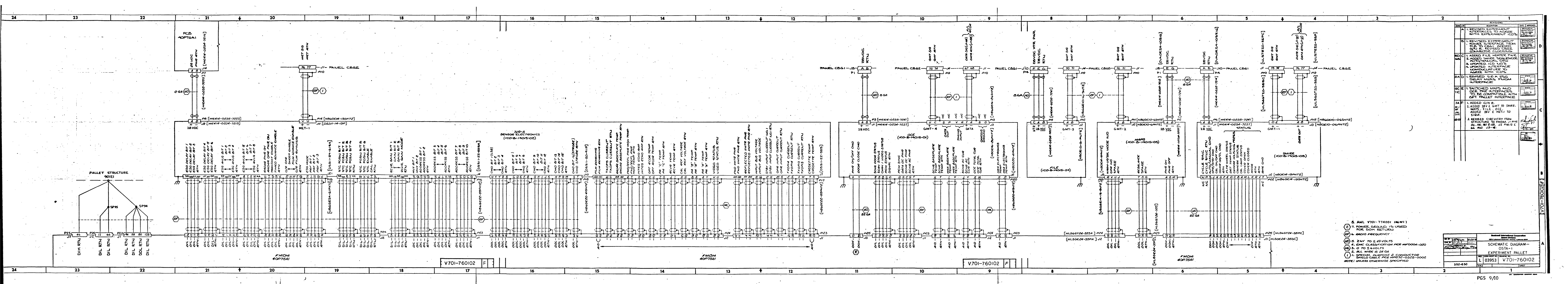
This document contains the basic payload data for the MCC configuration on the OSTA-1 payload. Sections 1 through 10 comprise the MCC Level D configuration (data pack), section 11 contains the collection of Ground Statement of Requirements (GSR's) for additional Level A, B, and C configuration, and section 12 contains a description of user-supplied ground support equipment. This document is issued as an annex to the Payload Integration Plan (PIP), JSC-14015.

All data presented in this annex have been supplied and verified by the payload user and his staff. Corrections and updates will be made as scheduled via the PIP.

Comments and/or corrections to these data should be directed to Janis Plesums, (713) 483-2845, code CH63, NASA JSC.

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SECTION 1  
DATA PACK DESCRIPTION

This data pack document details configuration data for the JSC MCC display and control facilities in support of the STS-2 payload operations. The requirements stated in each of the data pack sections will be submitted to the Ground Data Systems Division (GDSD) for implementation.

NOTE: Detailed procedures for operating the Payload Operations Control Center (POCC) facilities configured in this document will be provided in various training guides and console handbooks.

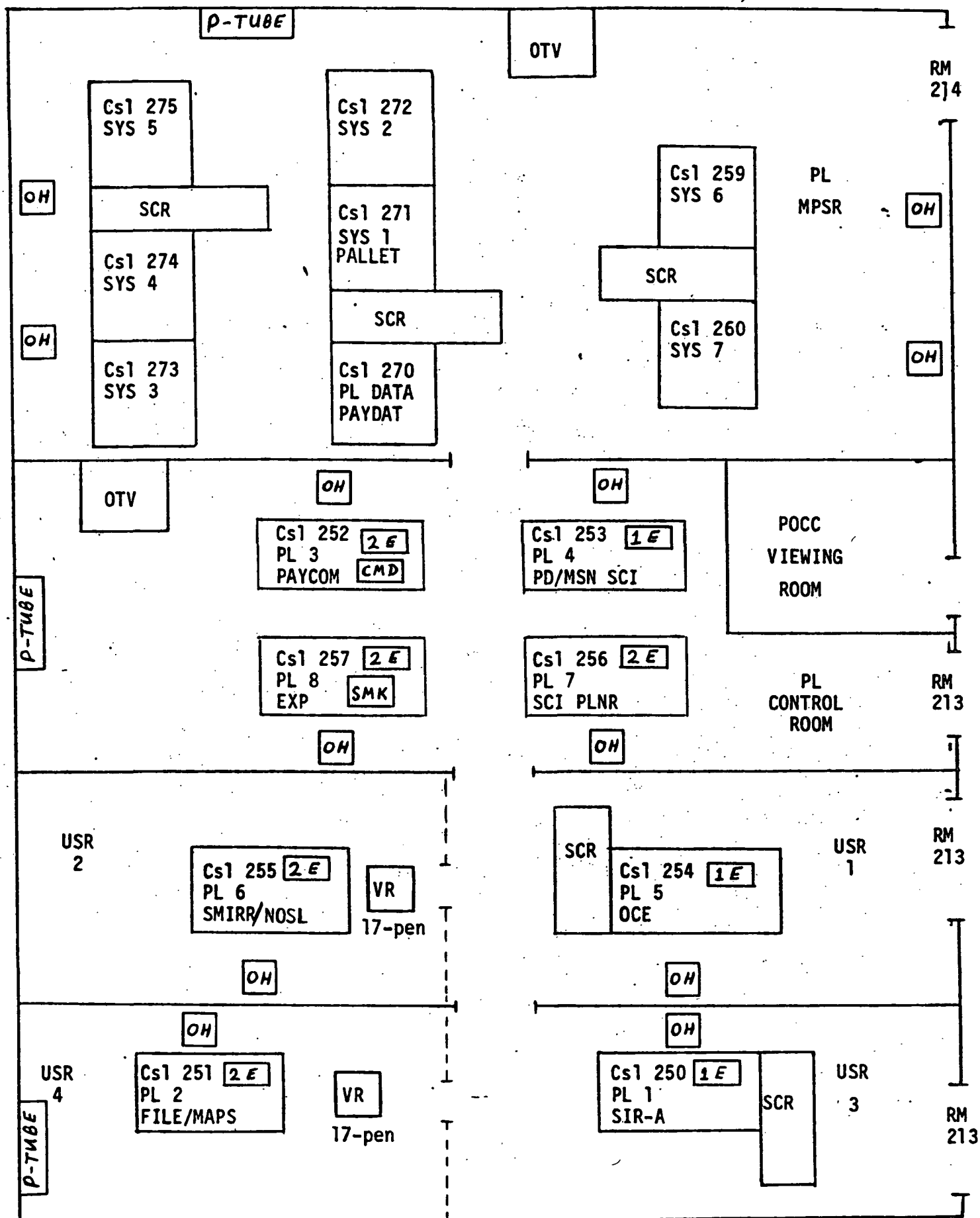
SECTION 2  
POCC FACILITIES AND CONSOLE CONFIGURATIONS

This section contains the floor plan of the POCC area of the Mission Control Center (MCC) indicating major facilities and consoles with designated positions. Each console contains voice communications, TV monitor display capability, event indicator modules, and unique capabilities as indicated. Also presented in this section are detailed configurations of the POCC consoles.

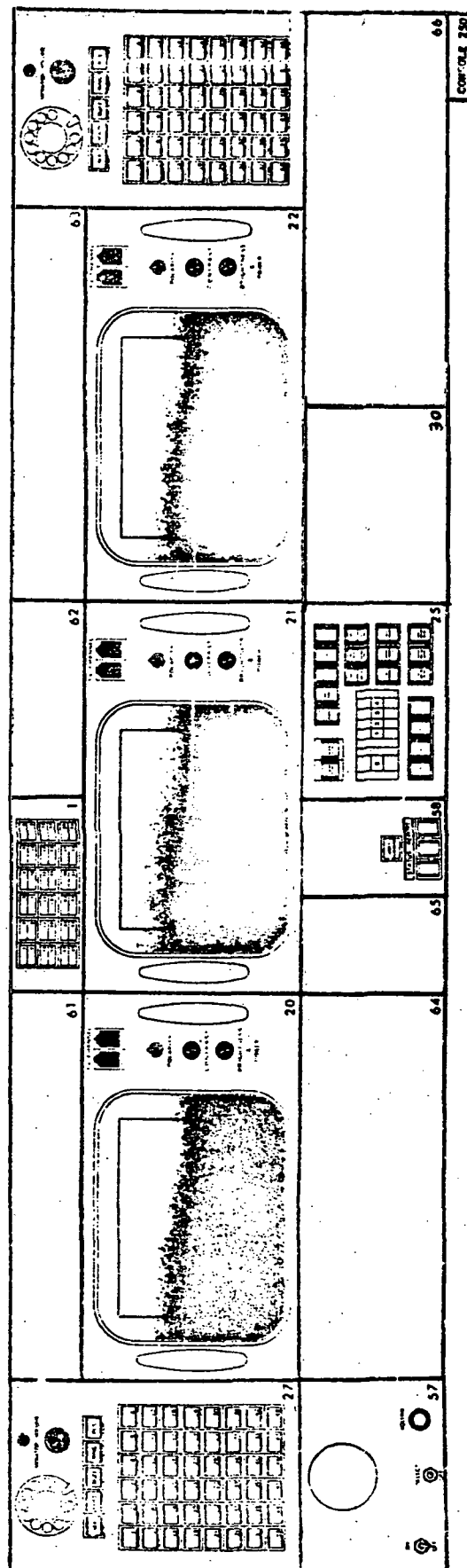
Listed below are explanatory notes found in the floor plan:

- OH - Overhead TV monitor
- OTV - Opaque TV
- VR - Analog/event video recorder (17-pen)
- SCR - Analog/event stripchart recorder (10-pen)
- E - Event indicator module (36-event)
- SMK - Summary message enable keyboard
- CMD - Command modules

# PAYLOAD MPSR AND POCC (STS-2)

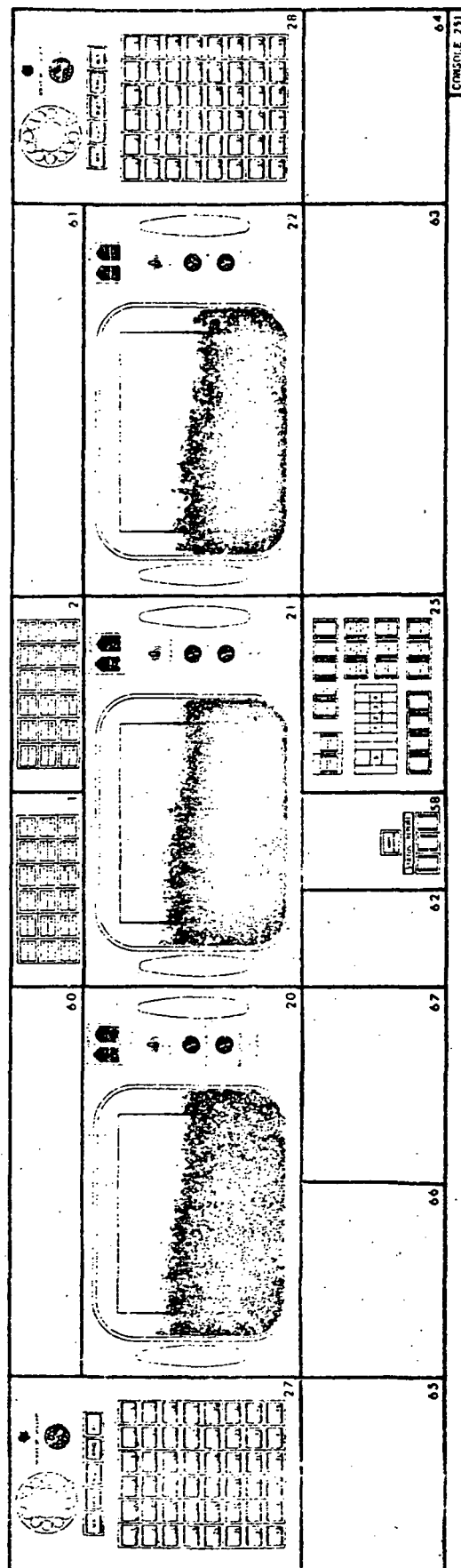


LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		57	VOICE COMM SPEAKER	SPK1	
20	TV MONITOR 14 PRECISION	M9		58	STATUS REPORTING	4CE2	
21	TV MONITOR 14 PRECISION	M9		61	BLANK PANEL	D11/8	
22	TV MONITOR 14 PRECISION	M9		62	BLANK PANEL	D11/6	
25	MANUAL SELECT KEYBOARD	MSK4A		63	BLANK PANEL	D11/8	
27	VOICE COMM POSITION-2260	V48		64	BLANK PANEL	D11/16	
28	VOICE COMM POSITION-2261	V48		65	BLANK PANEL	D11/13	
30	BLANK PANEL	D11/16		66	BLANK PANEL	D11/16	



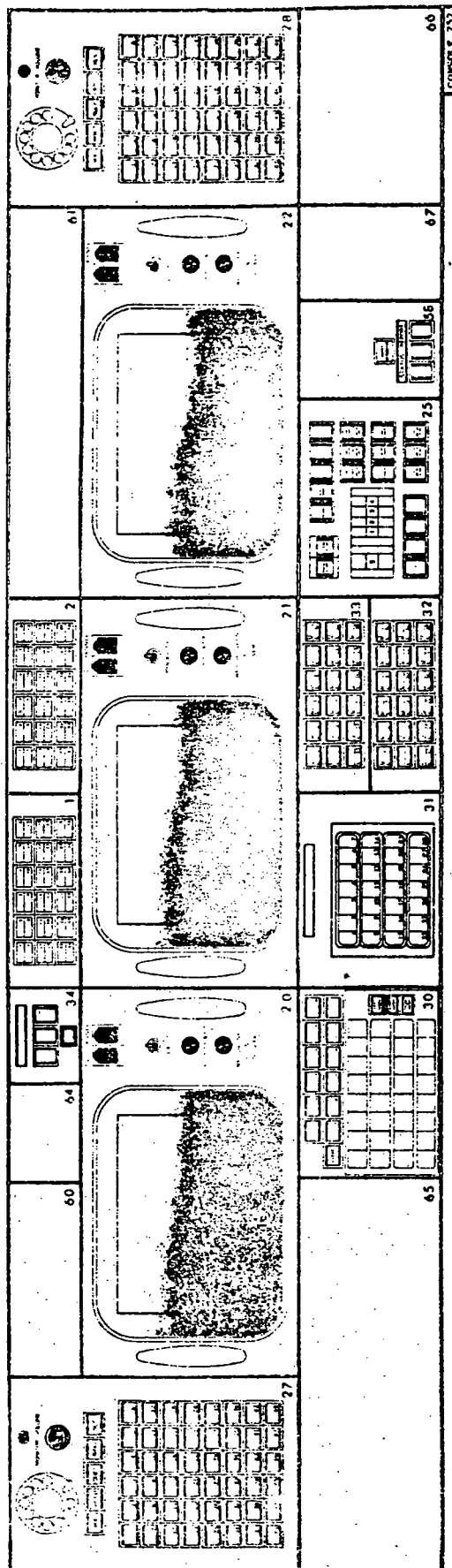
PAYLOAD 1 (SIR-A)  
CONSOLE NO. 250  
ROOM NO. 213

LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		58	STATUS REPORT	4CE2	
02	EVENT INDICATOR	36E		60	BLANK PANEL	D11/8	
20	TV MONITOR 14 PRECISION	M9		61	BLANK PANEL	D11/8	
21	TV MONITOR 14 PRECISION	M9		62	BLANK PANEL	D11/13	
22	TV MONITOR 14 PRECISION	M9		63	BLANK PANEL	D11/16	
25	MANUAL SELECT KEYBOARD	MSK3A		64	BLANK PANEL	D11/14	
27	VOICE COMM POSITION-2262	V48----		65	BLANK PANEL	D11/14	
28	VOICE COMM POSITION-2263	V48----		66	BLANK PANEL	D11/14	
				67	BLANK PANEL	D11/14	



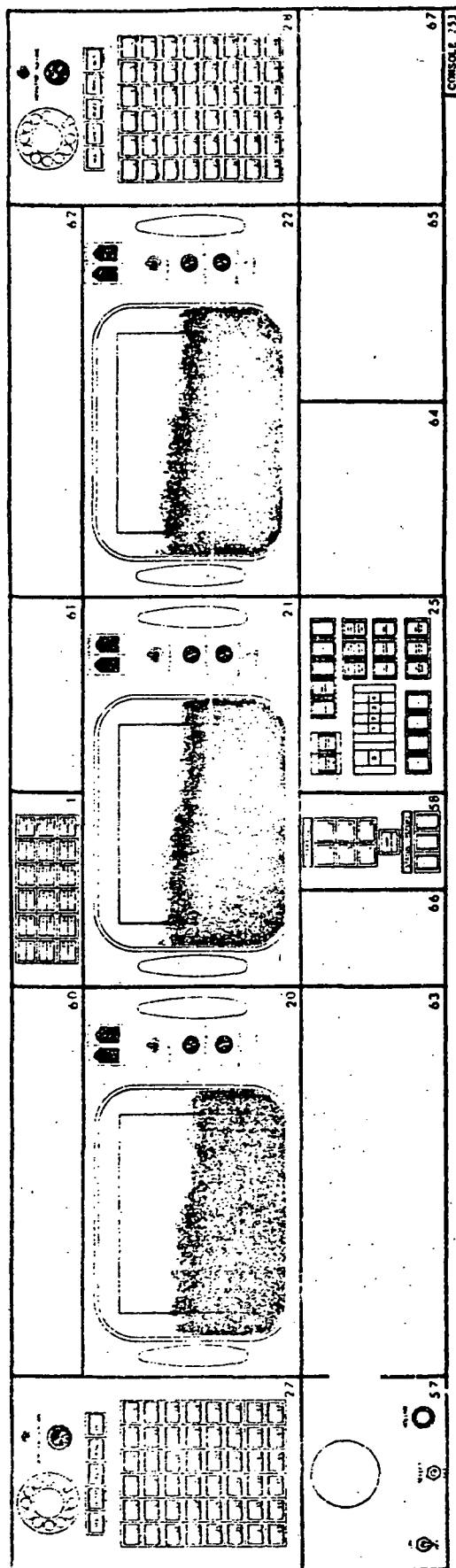
PAYLOAD 2 (FILE/MAPS)  
 CONSOLE NO. 251  
 ROOM NO. 213

LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		32	SWITCH MODULE	18CMD	
02	EVENT INDICATOR	36E		33	SWITCH MODULE	18CMD	
20	TV MONITOR 14 PRECISION	M9		34	FUNCTION CODE SELECT	4C1	
21	TV MONITOR 14 PRECISION	M9		58	STATUS REPORT	4CE2	
22	TV MONITOR 14 PRECISION	M9		60	BLANK PANEL	D11/6	
25	MANUAL SELECT KEYBOARD	MSK3A		61	BLANK PANEL	D11/8	
27	VOICE COMM POSITION-2264	V48		64	BLANK PANEL	D11/5	
28	VOICE COMM POSITION-2265	V48		65	BLANK PANEL	D11/16	
30	MULTIPLE COMMAND MODULE	DRK4		66	BLANK PANEL	D11/14	
31	DIGITAL READOUT MODULE	28RO1		67	BLANK PANEL	D11/13	



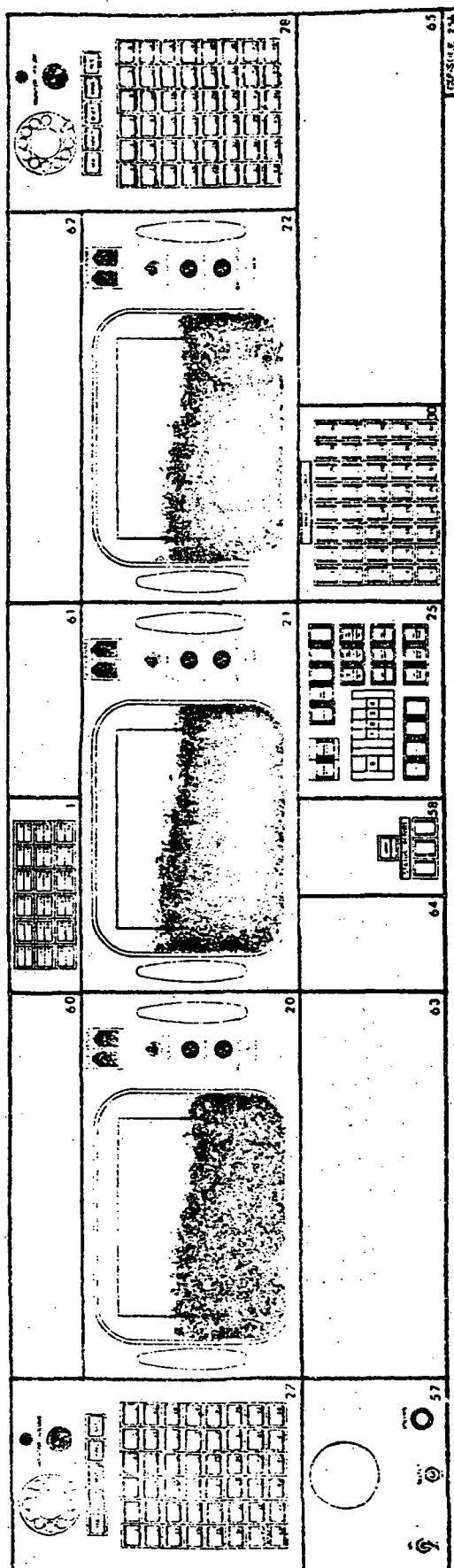
PAYLOAD 3 (PAYCOM)  
CONSOLE NO. 252  
ROOM NO. 213

LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		58	STATUS/STATUS REPORT	10EC2	
20	TV MONITOR 14 PRECISION	M9		60	BLANK PANEL	D11/8	
21	TV MONITOR 14 PRECISION	M9		61	BLANK PANEL	D11/6	
22	TV MONITOR 14 PRECISION	M9		62	BLANK PANEL	D11/8	
25	MANUAL SELECT KEYBOARD	MSK4A		63	BLANK PANEL	D11/16	
27	VOICE COMM POSITION-2266	V48		64	BLANK PANEL	D11/14	
28	VOICE COMM POSITION-2267	V48		65	BLANK PANEL	D11/14	
57	VOICE COMM SPEAKER	SPK1		66	BLANK PANEL	D11/13	
				67	BLANK PANEL	D11/14	



PAYLOAD 4 ( PD/MSN SCI )  
 CONSOLE NO. 253  
 ROOM NO. 213

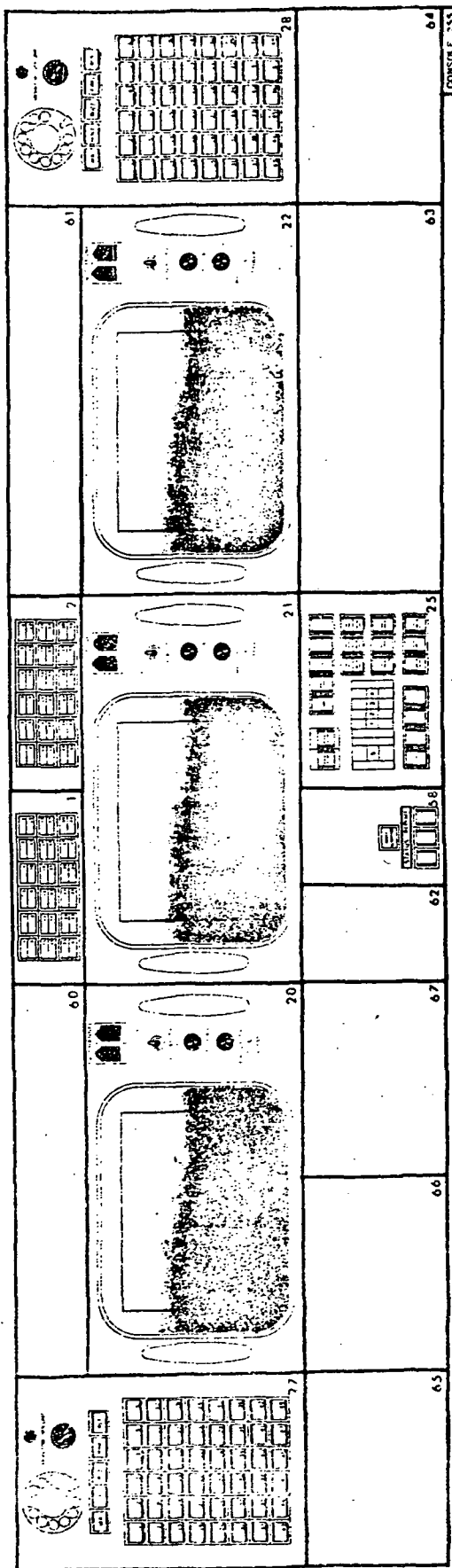
LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		57	VOICE COMM SPEAKER	SPK1	
20	TV MONITOR 14 PRECISION	M9		58	STATUS REPORT	4CE2	
21	TV MONITOR 14 PRECISION	M9		60	BLANK PANEL	D11/8	
22	TV MONITOR 14 PRECISION	M9		61	BLANK PANEL	D11/6	
25	MANUAL SELECT KEYBOARD	MSK3A		62	BLANK PANEL	D11/3	
27	VOICE COMM POSITION-2268	V48		63	BLANK PANEL	D11/16	
28	VOICE COMM POSITION-2269	V48		64	BLANK PANEL	D11/13	
30	SUMMARY MSG ENABLE KBRD	SMEK2	INACT	65	BLANK PANEL	D11/16	



PAYLOAD 5 (OCE)  
CONSOLE NO. 254  
ROOM NO. 213

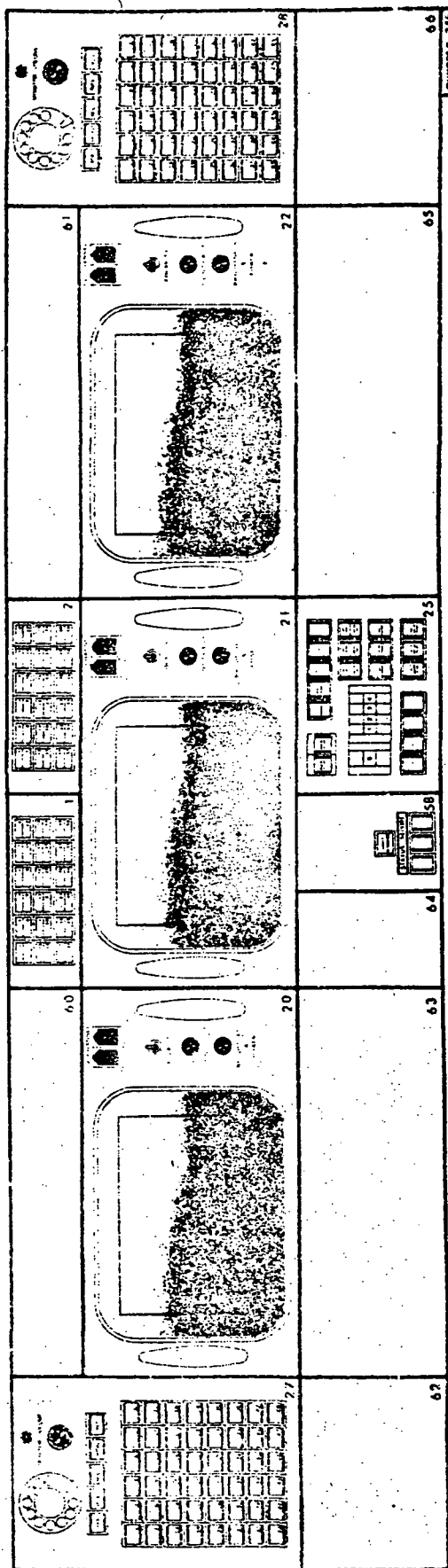


LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		58	STATUS REPORT	4CE2	
02	EVENT INDICATOR	36E		60	BLANK PANEL	D11/8	
20	TV MONITOR 14 PRECISION	M9		61	BLANK PANEL	D11/8	
21	TV MONITOR 14 PRECISION	M9		62	BLANK PANEL	D11/13	
22	TV MONITOR 14 PRECISION	M9		63	BLANK PANEL	D11/16	
25	MANUAL SELECT KEYBOARD	MSK3A		64	BLANK PANEL	D11/14	
27	VOICE COMM POSITION-2270	V48----		65	BLANK PANEL	D11/14	
28	VOICE COMM POSITION-2271	V48----		66	BLANK PANEL	D11/14	
				67	BLANK PANEL	D11/14	



PAYLOAD 6 (SMIRP/NOSE)  
 CONSOLE NO. 255  
 ROOM NO. 213

LOC	DESCRIPTION	TYPE	NOTE	LOC	DESCRIPTION	TYPE	NOTE
01	EVENT INDICATOR	36E		58	STATUS REPORT	4CE2	
02	EVENT INDICATOR	36E		60	BLANK PANEL	D11/8	
20	TV MONITOR 14 PRECISION	M9		61	BLANK PANEL	D11/8	
21	TV MONITOR 14 PRECISION	M9		62	BLANK PANEL	D11/14	
22	TV MONITOR 14 PRECISION	M9		63	BLANK PANEL	D11/16	
25	MANUAL SELECT KEYBOARD	MSK3A		64	BLANK PANEL	D11/13	
27	VOICE COMM POSITION-2272	V48		65	BLANK PANEL	D11/16	
28	VOICE COMM POSITION-2273	V48		66	BLANK PANEL	D11/14	



PAYLOAD 7 (SCI PLNR)  
CONSOLE NO. 256  
ROOM NO. 213

TYPE

DESCRIPTION

LOC

NOTE

TYPE

DESCRIPTION

LOC

4CE2  
D11/8  
D11/8  
D11/14  
D11/16  
D11/13  
D11/16  
D11/14

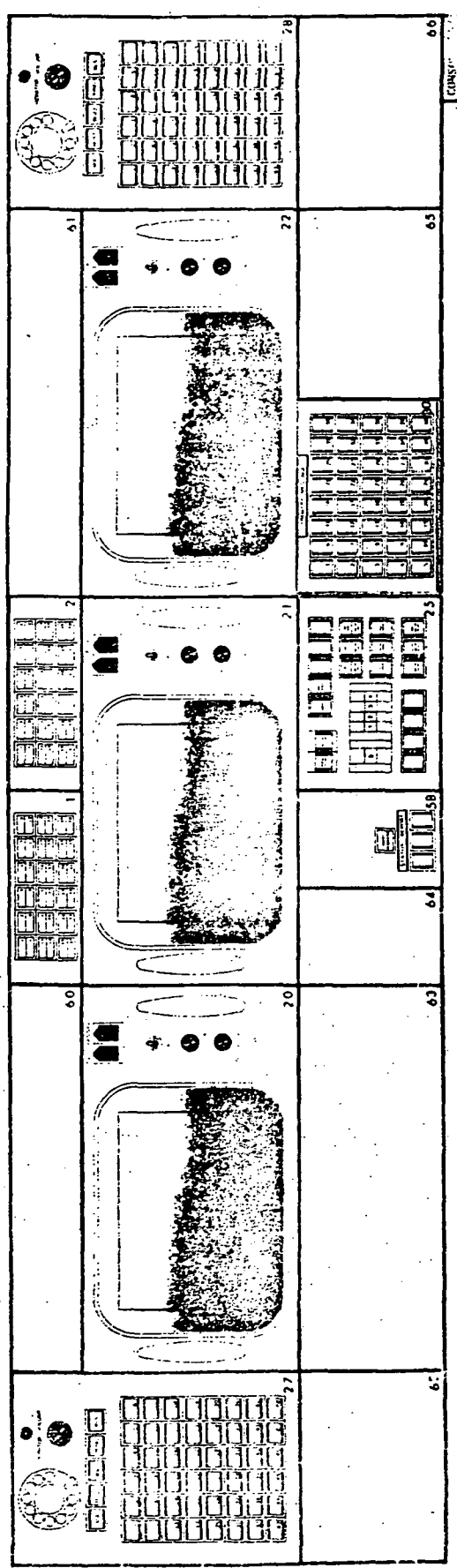
STATUS REPORT  
BLANK PANEL  
BLANK PANEL  
BLANK PANEL  
BLANK PANEL  
BLANK PANEL  
BLANK PANEL  
BLANK PANEL

58  
60  
61  
62  
63  
64  
65  
66

36E  
36E  
M9  
M9  
M9  
MSK3A  
V48  
V48  
SNEK2

EVENT INDICATOR  
EVENT INDICATOR  
TV MONITOR 14 PRECISION  
TV MONITOR 14 PRECISION  
TV MONITOR 14 PRECISION  
MANUAL SELECT KEYBOARD  
VOICE COMM POSITION-2274  
VOICE COMM POSITION-2275  
SUMMARY MSG ENABLE KBRD

01  
02  
20  
21  
22  
25  
27  
28  
30



PAYLOAD 8 (EXPERIMENTS)  
CONSOLE NO. 257  
ROOM NO. 213

### SECTION 3 CONSOLE INITIALIZATION

A Mission Control Center console can be initialized for real-time or simulation support, with live, simulated, or playback data. This section specifies the data type and the support mode in which the POCC consoles are to be initiated.

02-15-77

MCC CONFIGURATION CONTROL

OPT TEST DATA BASE

DATA PACK ACRONYM

CHL/PAYLOADS

CONSOLE INITIALIZATION FORM

CONSOLE  
NUMBER

INITIALIZATION  
FLIGHT

INITIALIZATION  
DATA TYPE

250

002

LIVE DATA

SIR-A

251

MAPS/FILE

252

PAYLOAD CMD

253

POCC DIR/MSN SCI

254

OCB

255

SMIRR/NOSL

256

SCIENCE PLNR

257

002

LIVE DATA

EXP

## SECTION 4 EVENT MODULE

### 4.1 INITIALIZATION

The format for each event module is variable and can be driven with various types of data (i.e., real-time, playback, simulation). Section 4.1 specifies the format, the data type, and the mode for each of the POCC console event modules.

NOTE: Each module is initiated as indicated; different formats may be selected in real-time by the console operator.

03-25-77

OFT REQUIREMENTS INPUT FORM

MCC CONFIGURATION CONTROL

VARIABLE EVENT MODULE INITIALIZATION REQUIREMENT INPUT FORM EXPLANATION:

DATA PACK ACRONYM

Eg... GUIDANCE, BOOSTER, FLIGHT CONTROL, EMES,...

CONSOLE NUMBER -

Enter the Console number.

MODULE NUMBER -

Enter the module location designation number. This number will always be from '01' thru '19' for a variable event module.

FORMAT NUMBER -

Enter the format number of the 'variable event format' that is required to initialize the variable event module.

DATA TYPE -

Enter the type of data required to drive the variable event format that has been designated in the 'FORMAT NUMBER' entry.

Data Types: REALTIME, SIMULATION, PLAYBACK 1,  
PLAYBACK 2

FLIGHT -

Enter the Flight ID required for this module upon initialization.

Note: Each Variable Event Module may be initialized to a different flight. They may be selected (via MSK) to a different flight in real-time.

03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHL/PAYLOADS

VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>250</u>	<u>01</u>	<u>520</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>



03-25-77

MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM

DATA PACK ACRONYM CHL/PAYLOADS

## VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>251</u>	<u>01</u>	<u>521</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>530</u>	<u>LIVE</u>	<u>002</u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>

03-25-77

MCC CONFIGURATION CONTROL

OPT REQUIREMENTS INPUT FORM

DATA PACK ACRONYM

CHW/PAYLOADS

## VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>252</u>	<u>01</u>	<u>530</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>545</u>	<u>LIVE</u>	<u>002</u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>

03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHL/PAYLOADS

VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>253</u>	<u>01</u>	<u>530</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>

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MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM

DATA PACK ACRONYM CHG/PAYLOADS

## VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>254</u>	<u>01</u>	<u>522</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>

03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>255</u>	<u>01</u>	<u>523</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>530</u>	<u>LIVE</u>	<u>002</u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>

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MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM

DATA PACK ACRONYM CHG/PAYLOADS

## VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>256</u>	<u>01</u>	<u>530</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>545</u>	<u>LIVE</u>	<u>002</u>
	<u>03</u>	_____	_____	_____
	<u>04</u>	_____	_____	_____
	<u>05</u>	_____	_____	_____
	<u>06</u>	_____	_____	_____
	<u>07</u>	_____	_____	_____
	<u>08</u>	_____	_____	_____
	<u>09</u>	_____	_____	_____
	<u>10</u>	_____	_____	_____
	<u>11</u>	_____	_____	_____
	<u>12</u>	_____	_____	_____
	<u>13</u>	_____	_____	_____
	<u>14</u>	_____	_____	_____
	<u>15</u>	_____	_____	_____
	<u>16</u>	_____	_____	_____
	<u>17</u>	_____	_____	_____
	<u>18</u>	_____	_____	_____
	<u>19</u>	_____	_____	_____

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MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CH6/ PAYLOADS

VARIABLE EVENT MODULE INITIALIZATION REQUIREMENTS INPUT FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>FORMAT NUMBER</u>	<u>DATA TYPE</u>	<u>FLIGHT NUMBER</u>
<u>257</u>	<u>01</u>	<u>530</u>	<u>LIVE</u>	<u>002</u>
	<u>02</u>	<u>545</u>	<u>LIVE</u>	<u>002</u>
	<u>03</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>04</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>05</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>06</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>07</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>08</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>09</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>10</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>11</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>12</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>14</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>15</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>16</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>17</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>18</u>	<u>      </u>	<u>      </u>	<u>      </u>
	<u>19</u>	<u>      </u>	<u>      </u>	<u>      </u>

## 4.2 FORMAT DEFINITION

Section 4.2 defines the event module formats to be used during operations support. Overlays are made for each format and are provided to each console as required.

- Event Light Color Conventions

Red - Analogs or critical events that are limit-sensed and annunciated onboard (FDA or C&W)

Amber - (1) Analogs or events that are limit-sensed on the ground only  
(2) Off-nominal or out-of-configuration event

Green - Nominal configuration

White - Nominal configuration where flip-flop might be required in conjunction with green

Blue - Ground processing or configuration type events, e.g., inhibit ground limit sensing, initiate plots, or special computation



## MCC CONFIGURATION CONTROL

## VARIABLE EVENT FORMAT DETAIL INPUT FORM EXPLANATION:

**DATA PACK ACRONYM -** Eg... GUIDANCE, BOOSTER, FLIGHT CONTROL, EMES,...

**EVENT FORMAT NUMBER -** When the DDD control mode is selected (MSK), the four MSK thumbwheels will represent the event format and console-module number. The left three thumbwheels will represent the event format number.

**FLIGHT -** Flight ID.

**DATA TYPE -** REAL TIME, SIMULATION, PLAYBACK 1, PLAYBACK 2

**OVERLAY TYPE -** TYPE A = 36-EVENT INDICATOR OVERLAY FOR USE ON A 36-EVENT INDICATOR MODULE.  
TYPE B = 36-EVENT INDICATOR OVERLAY FOR USE ON THE UPPER OR LOWER HALF OF A 72-EVENT INDICATOR MODULE.

**NUMBER OF COPIES -** Specify the number of copies of physical overlays required.

**OVERLAY TITLE -** If applicable, specify a name for this overlay.

**INDICATOR -** This number relates to the physical location (and software identifier) of each 'window/indicator' of the 36-indicator format.

36-EVENT  
MODULE  
(TYPE-A)

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

72-EVENT  
MODULE  
(TYPE-B)

01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	25	27
28	29	30	31	32	33	34	35	36

**COLOR -** Colors available are:

RED, GREEN, AMBER, BLUE & WHITE (R,G,A,B & W)

**MEASUREMENT NUMBER -** Enter the valid (MCC-H computer available) measurement number required displayed.

**LOGIC -** Enter the display logic required:

Straight, Reverse, Critical, Latched

**LABEL -** Enter the label required. Labels are limited to 2 Lines/9 Characters each (Space=Character).

# VARIABLE EVENT MODULE

SIRAX0156	Q/R ADV
SIRAX0157	FILM MTN

SIRAX0154	O/R OPR
SIRAX0155	O/R SWEEP

SIRAX0172	STC

SIRAX0158	T ADV
SIRAX0173	CAL OFF

SIRAX0152	RAD OP PW
SIRAX0153	XMTR

P03X0155Y	SIR-A K8
SIRAX0151	RAD PWR

	OCE
	LIMITS


SIRATOZZ5	PA C TEMP
SIRATOZZ7	BASE TEMP

SIRATOZZ3	PA A TEMP
SIRATOZZ4	PA B TEMP

SIRATOZZ2	RCVR TEMP
SIRATOZZ1	F/R TEMP

SIRATOZZ6	FILM TEMP
SIRATOZZ8	O/R TEMP

SIR-A 1	LIMITS
SIR-A 2	LIMITS

SIRAVOZ16	CAL REF V

SIRAC0Z08	TXOP14
SIRAVOZ17	IN BUS V

SIRAC0Z05	TXOP9
SIRAC0Z07	TXOP13

SIRAC0Z0A	STBY AMPS
SIRAC0Z10	OPR AMPS

SIRAE0Z01	FWD XMTR
SIRAE0Z02	RFL XMTR

SIR-A

TITLE

520

FORMAT NUMBER

250

CONSOLE NUMBER

PL-1

CONSOLE NAME

03-25-77  
MCC CONFIGURATION CONTROL

VARIABLE EVENT FORMAT DETAIL  
OFF REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHL/PAYLOADS

EVENT FORMAT NUMBER 520 FLIGHT 002 DATA TYPE RT

OVERLAY TYPE \_\_\_\_\_ NUMBER OF COPIES 10

OVERLAY TITLE SIR-A

INDICATOR	COLOR	MEASUREMENT NUMBER	LOGIC	LABEL
01	G	P03X1055Y		P03X1055Y • SIR-A KP
02	G	P20X0152Y		SIRAX0152 • RAD OP PW
03	G	P20X0152Y		SIRAX0152 • T ADV
04	G	P20X0172Y		SIRAX0172 • STC
05	G	P20X0154Y		SIRAX0154 • OIR OPR
06	G	P20X0156Y		SIRAX0156 • OIR ADV
07	G	P20X0151Y		SIRAX0151 • RAD PWR
08	G	P20X0153Y		SIRAX0153 • XMTR
09	A	P20X0173Y	R	SIRAX0173 • CAL OFF
10	-			
11	G	P20X0155Y		SIRAX0155 • OIR SWEEP
12	G	P20X0157X		SIRAX0157 • FILM MTN
13	B	P20T0226V		SIRATO226 • FILM TEMP
14	A	P20T0222V		SIRATO222 • RCVR TEMP
15	A	P20T0223V		SIRATO223 • PA A TEMP
16	A	P20T0225V		SIRATO225 • PA C TEMP
17	-			
18	-			
19	A	P20T0228V		SIRATO228 • OIR TEMP
20	A	P20T0221V		SIRATO221 • FIR TEMP
21	A	P20T0224V		SIRATO224 • PA B TEMP
22	A	P20T0227V		SIRATO227 • CASE TEMP
23	-			
24	B			OCE • LIMITS
25	B	P20E0201V		SIRAE0201 • FWD XMTR
26	B	P20C0209V		SIRAC0209 • STBY AMPS
27	A	P20C0205V		SIRAC0205 • TXOP9
28	A	P20C0208V		SIRAC0208 • TXOP14
29	A	P20V0216V		SIRAV0216 • CAL REF V
30	B			SIR-A 1 • LIMITS
31	B	P20E0202V		SIRAE0202 • REL XMTR
32	B	P20C0210V		SIRAC0210 • OPR AMPS
33	A	P20C0207V		SIRAC0207 • TXOP13
34	A	P20V0217V		SIRAV0217 • IN BUS V
35	-			
36	B			SIR-A 2 • LIMITS

FORMAT NUMBER	TITLE	FILE/ MAPS
521		

CONSOLE NAME	PL-2	CONSOLE NUMBER	251
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MCC CONFIGURATION CONTROL

## VARIABLE EVENT FORMAT DETAIL

OFF REQUIREMENTS INPUT FORM

DATA PACK ACRONYM CHG/PAYLOADSEVENT FORMAT NUMBER 521 FLIGHT 002 DATA TYPE RTOVERLAY TYPE \_\_\_\_\_ NUMBER OF COPIES 10OVERLAY TITLE FILE/MAPS

INDICATOR	COLOR	MEASUREMENT NUMBER	LOGIC	LABEL
01	-			
02	-			
03	-			
04	-			
05	-			
06	-			
07	-			
08	-			
09	-			
10	-			
11	-			
12	-			
13	-			
14	-			
15	-			
16	-			
17	-			
18	-			
19	-			
20	-			
21	-			
22	-			
23	-			
24	-			
25	-			
26	G	P20X0061Y		MAPSX0061 - OPERATE
27	G	P03X1043Y		P03X1043Y - FILE K5
28	-			
29	-			
30	-			
31	G	P03X1046Y		P03X1046Y - MAPS K2
32	B	P20X0060Y		MAPSX0060 - WARM/BAL
33	G	P03X1058Y		P03X1058Y - HTR K6
34	-			
35	-			
36	-			

# VARIABLE EVENT MODULE

P03X1049Y <sup>G</sup>
OCE K3
OCE X0080 <sup>G</sup>
DATA DC

OCE X0082 <sup>G</sup>
SCAN AC
OCE X0081 <sup>G</sup>
SCAN DC

OCE X0077 <sup>G</sup>
VIDEO
OCE X0078 <sup>G</sup>
PCM

OCE X0076 <sup>G</sup>
SCAN
OCE X0079 <sup>G</sup>
PCM SYNC

OCE C0097 <sup>R</sup>
TOT CUR
OCE X0075 <sup>G</sup>
DOOR OPEN

OCE C0096 <sup>R</sup>
SCAN CUR
OCE T0092 <sup>A</sup>
ELEC TEMP






OCE T0090 <sup>A</sup>
SCAN BASE
OCE T0091 <sup>A</sup>
MEA BASE

OCE <sup>B</sup>
LIMITS



RCD SPD1 <sup>G</sup>
OCE <sup>G</sup>
RCD SPD2 <sup>G</sup>
SMIRR 38

RCD A <sup>G</sup>
OCE
RCD B <sup>G</sup>
SMIRR

RECORDER <sup>A</sup>
STOP
TAPE <sup>G</sup>
MOTUN

FORMAT NUMBER 522 TITLE OCE

CONSOLE NAME PL-5 CONSOLE NUMBER 254

03-25-77

MCC CONFIGURATION CONTROL

## VARIABLE EVENT FORMAT DETAIL

OFF REQUIREMENTS INPUT FORM

DATA PACK ACRONYM CH6/PAYLOADSEVENT FORMAT NUMBER 522 FLIGHT 002 DATA TYPE RTOVERLAY TYPE \_\_\_\_\_ NUMBER OF COPIES 10OVERLAY TITLE OCE

INDICATOR	COLOR	MEASUREMENT NUMBER	LOGIC	LABEL
01	G	P03X1049Y		P03X1049Y • OCE K3
02	G	P20X0082Y		OCE X0082 • SCAN AC
03	G	P20X0077Y		OCE X0077 • VIDEO
04	G	P20X0076Y		OCE X0076 • SCAN
05	R	P20C0097V		OCE C0097 • TOT CUR
06	R	P20C0096V		OCE C0096 • SCAN CUR
07	G	P20X0080Y		OCE X0080 • DATA DC
08	G	P20X0081Y		OCE X0081 • SCAN DC
09	G	P20X0078Y		OCE X0078 • PCM
10	G	P20X0079Y		OCE X0079 • PCM SYNC
11	G	P20X0075Y		OCE X0075 • DOOR OPEN
12	A	P20T0092V		OCE T0092 • ELEC TEMP
13	-			
14	-			
15	-			
16	-			
17	-			
18	A	P20T0090V		OCE T0090 • SCAN BASE
19	-			
20	-			
21	-			
22	-			
23	-			
24	A	P20T0091V		OCE T0091 • MEA BASE
25	-			
26	-			
27	-			
28	G	M33I0309E		RCD SPD 1 • OCE 6
29	G	M18I0309E		RCD A • OCE
30	A	M24I0309E		RECORDER • STOP
31	B			OCE • LIMITS
32	-			
33	-			
34	G	M34I0309E		RCD SPD 2 • SMIRR 38
35	G	M21I0309E		RCD B • SMIRR
36	G	V75X2723E		TAPE • MOTION

FORMAT NUMBER	TITLE	SMIRR
523		

CONSOLE NAME	CONSOLE NUMBER
PL-6	255



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MEC CONFIGURATION CONTROL

VARIABLE EVENT FORMAT DETAIL  
OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHW/PAYLOADS

EVENT FORMAT NUMBER 523 FLIGHT 002 DATA TYPE RT

OVERLAY TYPE \_\_\_\_\_ NUMBER OF COPIES 10

OVERLAY TITLE SMIRR

INDICATOR	COLOR	MEASUREMENT NUMBER	LOGIC	LABEL
01	-	_____	_____	_____
02	-	_____	_____	_____
03	-	_____	_____	_____
04	-	_____	_____	_____
05	-	_____	_____	_____
06	-	_____	_____	_____
07	-	_____	_____	_____
08	-	_____	_____	_____
09	-	_____	_____	_____
10	-	_____	_____	_____
11	-	_____	_____	_____
12	-	_____	_____	_____
13	G	<u>P03X1052Y</u>	_____	<u>P03X1052Y • K4 SMIRR</u>
14	G	<u>P20X0118Y</u>	_____	<u>SMIRX0118 • COVER OP</u>
15	G	<u>P20X0120Y</u>	_____	<u>SMIRX0120 • OPERATE</u>
16	G	<u>P20X0115Y</u>	_____	<u>SMIRX0115 • FLT WHL</u>
17	G	<u>P20X0122Y</u>	_____	<u>SMIRX0122 • CAMERA</u>
18	-	_____	_____	_____
19	G	<u>P20X0117Y</u>	_____	<u>SMIRX0117 • CAL</u>
20	A	<u>P20X0119Y</u>	_____	<u>SMIRX0119 • COVER CL</u>
21	A	<u>P20X0120Y</u>	<u>R</u>	<u>SMIRX0120 • STANDBY</u>
22	G	<u>P20X0116Y</u>	_____	<u>SMIRX0116 • DET TEMP</u>
23	G	<u>P20X0121Y</u>	_____	<u>SMIRX0121 • CAM HOU P</u>
24	-	_____	_____	_____
25	G	<u>P20K0105Y</u>	_____	<u>SMIRK0105 • AUTOMATIC</u>
26	-	_____	_____	_____
27	-	_____	_____	_____
28	G	<u>M33I0309E</u>	_____	<u>RCD SPD 1 • OCE 6</u>
29	G	<u>M1P10309E</u>	_____	<u>RCD A • OCE</u>
30	A	<u>M24I0309E</u>	_____	<u>RECORDER • STOP</u>
31	-	_____	_____	_____
32	-	_____	_____	_____
33	-	_____	_____	_____
34	G	<u>M34I0309E</u>	_____	<u>RCD SPD 2 • SMIRR 3P</u>
35	G	<u>M21I0309E</u>	_____	<u>RCD B • SMIRR</u>
36	G	<u>V75X2723E</u>	_____	<u>TAPE • MOTION</u>

# VARIABLE EVENT MODULE

P03X1049Y<sup>G</sup>  
OCE K3  
OCE X0080<sup>G</sup>  
DATA DC

OCE X0082<sup>G</sup>  
SCAN AC  
OCE X0081<sup>G</sup>  
SCAN DC

OCE X0077<sup>G</sup>  
VIDEO  
OCE X0078<sup>G</sup>  
PCM

OCE X0076<sup>G</sup>  
SCAN  
OCE X0079<sup>G</sup>  
PCM SYNC

OCE C0097<sup>R</sup>  
TOT CUR  
OCE X0075<sup>G</sup>  
DOOR OPEN

OCE C0096<sup>R</sup>  
SCAN CUR  
OCE T0092<sup>A</sup>  
ELEC TEMP

P03X1052Y<sup>G</sup>  
SMIR K4  
SMIR X0117<sup>G</sup>  
CAL

SMIR X0118<sup>G</sup>  
COVER OP  
SMIR X0119<sup>A</sup>  
COVER CL

SMIR X0120<sup>G</sup>  
OPERATE  
SMIR X0120<sup>A</sup>  
STANDBY

SMIR X0115<sup>G</sup>  
FILT WHL  
SMIR X0116<sup>G</sup>  
DET TEMP

SMIR X0122<sup>G</sup>  
CAMERA  
SMIR X0121<sup>G</sup>  
CAM HOU P

OCE T0090<sup>A</sup>  
SCAN BASE  
OCE T0091<sup>A</sup>  
MEA BASE

SMIR K0105<sup>G</sup>  
AUTOMATIC  
P03X1046Y<sup>G</sup>  
MAPS K2

MAPS X0060<sup>G</sup>  
OPERATE  
MAPS X0060<sup>A</sup>  
WARM/BAL

P03X1043Y<sup>G</sup>  
FILE K5  
P03X1058Y<sup>G</sup>  
HTR K6

RCD SPD1<sup>G</sup>  
OCE<sup>G</sup>  
RCD SPD2<sup>G</sup>  
SMIR 38

RCD A<sup>G</sup>  
OCE  
RCD B<sup>G</sup>  
SMIR

RECORDEK<sup>A</sup>  
STOP  
TAPE<sup>G</sup>  
MOTION

FORMAT NUMBER 530 TITLE EXPERIMENTS  
CONSOLE NAME PL-8 CONSOLE NUMBER 257

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MCC CONFIGURATION CONTROL

VARIABLE EVENT FORMAT DETAIL  
OFF REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHG/PAYLOADS

EVENT FORMAT NUMBER 530 FLIGHT 002 DATA TYPE RT

OVERLAY TYPE \_\_\_\_\_ NUMBER OF COPIES 13

OVERLAY TITLE EXPERIMENTS

INDICATOR	COLOR	MEASUREMENT NUMBER	LOGIC	LABEL
01	G	P03X1049Y		P03X1049Y • OCE K3
02	G	P20X0082Y		OCE X0082 • SCAN AC
03	G	P20X0077Y		OCE X0077 • VIDEO
04	G	P20X0076Y		OCE X0076 • SCAN
05	R	P20C0097V		OCE C0097 • TOT CUR
06	R	P20C0096V		OCE C0096 • SCAN CUR
07	G	P20X0080Y		OCE X0080 • DATA DC
08	G	P20X0081Y		OCE X0081 • SCAN DC
09	G	P20X0078Y		OCE X0078 • PCM
10	G	P20X0079Y		OCE X0079 • PCM SYNC
11	G	P20X0075Y		OCE X0075 • DOOR OPEN
12	A	P20T0092V		OCE T0092 • ELEC TEMP
13	G	P03X1052Y		P03X1052Y • SMIRR KY
14	G	P20X0118Y		SMIRX0118 • COVER OP
15	G	P20X0120Y		SMIRX0120 • OPERATE
16	G	P20X0115Y		SMIRX0115 • FILT WHL
17	G	P20X0122Y		SMIRX0122 • CAMERA
18	A	P20T0090V		OCE T0090 • SCAN BASE
19	G	P20X0117Y		SMIRX0117 • CAL
20	A	P20X0119Y		SMIRX0119 • COVER CL
21	A	P20X0120Y		SMIRX0120 • STANDBY
22	G	P20X0116Y		SMIRX0116 • DET TEMP
23	G	P20X0121Y		SMIRX0121 • CAM HOU P
24	A	P20T0091V		OCE T0091 • MEA BASE
25	G	P20X0105Y		SMIRX0105 • AUTOMATIC
26	G	P20X0061Y		MAPSX0061 • OPERATE
27	G	P03X1043Y		P03X1043Y • FILE K5
28	G	M33I0309E		RCD SPD 1 • OCE 6
29	G	M18I0309E		RCD A • OCE
30	A	M24I0309E		RECORDER • STOP
31	G	P03X1046Y		P03X1046Y • MAPS K2
32	A	P20X0060Y		MAPSX0060 • WARM/BAL
33	G	P03X1058Y		P03X1058Y • HTR K6
34	G	M34I0309E		RCD SPD 2 • SMIRR 3P
35	G	M21I0309E		RCD B • SMIRR
36	G	V75X2723E		TAPE • MOTION



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MCC CONFIGURATION CONTROL

VARIABLE EVENT FORMAT DETAIL  
OFF REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CAL/PAYLOADS

EVENT FORMAT NUMBER 545 FLIGHT 002 DATA TYPE RT

OVERLAY TYPE \_\_\_\_\_ NUMBER OF COPIES 13

OVERLAY TITLE POCC SUMMARY

INDICATOR	COLOR	MEASUREMENT NUMBER	LOGIC	LABEL
01	G	P03X1046Y		P03X1046Y • MAPS K2
02	G	P03X1049Y		P03X1049Y • OCE K3
03	G	P03X1052Y		P03X1052Y • SMIR K4
04	G	P20X0151Y		SIRAX0151 • RAD PWR
05	G	M33I0309E		RCD SPD 1 • OCE 6
06	G	M18I0309E		RCD A • OCE
07	G	P20X0061Y		MAPSX0061 • OPERATE
08	G	P20X0080Y		OCE X0080 • DATA DC
09	G	P20X0117Y		SMIRX0117 • CAL
10	G	P20X0158Y		SIRAX0158 • T ADV
11	G	M34I0309E		RCD SPD 2 • SMIR 38
12	G	M21I0309E		RCD B • SMIR
13	A	P20X0060Y		MAPSX0060 • WARM/BAL
14	G	P20X0076Y		OCE X0076 • SCAN
15	G	P20X0118Y		SMIRX0118 • COVER OP
16	G	P20X0152Y		SIRAX0152 • RAD OP PW
17	R	P20E0201V		SIRAE0201 • FWD XMTR
18	A	M24I0309E		RECORDER • STOP
19	-			
20	G	P20X0075Y		OCE X0075 • DOOR OPEN
21	A	P20X0119Y		SMIRX0119 • COVER CL
22	G	P20X0153Y		SIRAX0153 • XMTR
23	R	P20E0202V		SIRAE0202 • REL XMTR
24	G	V75X2723E		TAPE • MOTION
25	G	P03X1043Y		P03X1043Y • FILE K5
26	R	P20C0097V		OCE C0097 • TOT CHR
27	G	P20X0120Y		SMIRX0120 • OPERATE
28	G	P20X0157Y		SIRAX0157 • FILM MTN
29	R	P20C0209V		SIRAC0209 • STBY AMPS
30	R			OCE • LIMITS
31	G	P03X1058Y		P03X1058Y • FILE K6
32	R	P20C0096V		OCE C0096 • SCAN CHR
33	A	P20X0120Y		SMIRX0120 • STANDBY
34	R	P20T0226V		SIRAT0226 • FILM TEMP
35	R	P20C0210V		SIRAC0210 • OPR AMPS
36	G			SIR-A 1 • LIMITS

## **SECTION 5**

### **LIMIT SENSE**

An analog parameter may be sensed by the ground system for upper and lower operational/critical limits. Indication that a limit-sensed parameter has reached or exceeded its normal operational or safety range may be provided by the event light and on the DTE display. The limit-sensing capability may be disabled or enabled in real time by the console operator using the Summary Message Enable Keyboard (SMEK) module.

This section lists the groups of parameters and the limits to be sensed.

## LIMIT SENSE DATA INPUT FORM DEFINITION:

DATA PACK ACRONYM - Eg... GUIDANCE, BOOSTER, FLIGHT CONTROL, EMES,...

MEASUREMENT NUMBER - Enter the Measurement Number of the parameter that is required limit sensed.

\*\* A given Measurement Number may be assigned to one and only one Flight Discipline Group. All Measurement Numbers that are required limit sensed must be assigned to a Flight Discipline Group.

UNITS - Enter the Engineering Units of the parameter to be limit sensed. ACRONYM limited to 8 characters.

OPERATIONAL LIMIT LOW - Enter the Operational Low Value. Valid with or without a decimal; May be preceded by a '-' or '+' Sign; BLANK defaults to a '+' sign.

OPERATIONAL LIMIT HIGH - Enter the Operational High Value. Valid with or without a decimal; May be preceded by a '-' or '+' Sign; BLANK defaults to a '+' sign.

CRITICAL LIMIT LOW - Enter the Critical Low Value. Valid with or without a decimal; May be preceded by a '-' or '+' Sign; BLANK defaults to a '+' sign.

This 'value' is to be entered only for Set # 01 of it's Flight Discipline Group.

For a given parameter that has 'critical limits' a corresponding set of operational limits must exist.

CRITICAL LIMIT HIGH - Enter the Critical High Value. Valid with or without a decimal; May be preceded by a '-' or '+' Sign; BLANK defaults to a '+' sign.

This 'value' is to be entered only for Set # 01 of it's Flight Discipline Group.

For a given parameter that has 'critical limits' a corresponding set of operational limit must exist.

CATEGORY - Enter the applicable Category or Categories for this measurement number. (Multiple categories may be specified for a given parameter.) The Category Numbers are from 1 thru 64.

The 'category' requirements are to be entered only for Set # 01 of it's Flight Discipline Group.

LIMIT SENSE DATA INPUT FORM DEFINITION: (CONT'D)

\*\* THERE IS ONE "CRITICAL ONLY" CATEGORY FOR EACH FLIGHT DISCIPLINE GROUP. THEY ARE AS FOLLOWS:

BOOSTER	FDG-1	CATEGORY-1
FLIGHT COMPUTERS	FDG-2	CATEGORY-2
AVIONICS	FDG-3	CATEGORY-3
EMESB1	FDG-4	CATEGORY-4
EMESB2	FDG-5	CATEGORY-5
PROPULSION	FDG-6	CATEGORY-6
PAYLOADS	FDG-7	CATEGORY-7

FDG -

Enter the Flight Discipline Group code.

<u>FDG CODE</u>	<u>GROUP NAME</u>
1	BOOSTER
2	FLIGHT COMPUTERS
3	AVIONICS
4	EMESB1
5	EMESB2
6	PROPULSION
7	PAYLOADS

M/S -

Enter the appropriate code:

M = Mission Limit Sense Data  
S = Simulation Limit Sense Data

SET # -

Enter the limit sense set number within a given Flight Discipline Group (Maximum of 5 Sets are allowed).

\*\* Within a Discipline, all parameters must have the same number of limit sets.

Eg.. If the 'Number of Sets' for FDG-1 = 3, then each Measurement Number of FDG-1 must have operation limits for each 'set of limits' within FDG-1.



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MCC CONFIGURATION CONTROL

## LIMIT SENSE DATA INPUT FORM

OFT TEST DATA BASE

DATA PACK ACRONYM CHG/PAYLOAD

## LIMIT SENSE TABLE INPUT FORM

MEASUREMENT NUMBER	UNITS	****OPERATIONAL LOW	LIMITS **** HIGH	****CRITICAL LOW	LIMITS ***** HIGH	CATEGORY	FDG	M SET S #
<u>P20E0201V</u>	<u>WATTS</u>	<u>800</u>	<u>1230</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20E0202V</u>	<u>WATTS</u>	<u>-</u>	<u>75</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0221V</u>	<u>DEGREE F</u>	<u>32</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20V0217V</u>	<u>VDC</u>	<u>25</u>	<u>32</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20C0209V</u>	<u>AMPS</u>	<u>1.0</u>	<u>1.6</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0226V</u>	<u>DEGREE F</u>	<u>41</u>	<u>95</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20C0210V</u>	<u>AMPS</u>	<u>13</u>	<u>25</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20V0216V</u>	<u>VDC</u>	<u>0.1</u>	<u>0.4</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0222V</u>	<u>DEGREE F</u>	<u>14</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0227V</u>	<u>DEGREE F</u>	<u>14</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0228V</u>	<u>DEGREE F</u>	<u>14</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0223V</u>	<u>DEGREE F</u>	<u>32</u>	<u>140</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0224V</u>	<u>DEGREE F</u>	<u>32</u>	<u>140</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20T0225V</u>	<u>DEGREE F</u>	<u>32</u>	<u>140</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20C0205V</u>	<u>AMPS</u>	<u>0.9</u>	<u>1.2</u>			<u>2</u>	<u>7</u>	<u>M1</u>
<u>P20C0207V</u>	<u>AMPS</u>	<u>2.4</u>	<u>3.3</u>			<u>2</u>	<u>7</u>	<u>M1</u>

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MEC CONFIGURATION CONTROL

## LIMIT SENSE DATA INPUT FORM

OFT TEST DATA BASE

DATA PACK ACRONYM CH6/PAYLOADS

## LIMIT SENSE TABLE INPUT FORM

MEASUREMENT NUMBER	UNITS	****OPERATIONAL LIMITS LOW	**** LIMITS HIGH	****CRITICAL LIMITS LOW	***** LIMITS HIGH	CATEGORY	FDG	M SET S #
<u>P20E0201V</u>	<u>WATTS</u>	<u>800</u>		<u>1230</u>		<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20E0202V</u>	<u>WATTS</u>	<u>-</u>	<u>75</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0221V</u>	<u>DEGREE F</u>	<u>32</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20V0217V</u>	<u>VDC</u>	<u>25</u>	<u>32</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20C0209V</u>	<u>AMPS</u>	<u>10</u>	<u>1.6</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0226V</u>	<u>DEGREE F</u>	<u>41</u>	<u>95</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20C0210V</u>	<u>AMPS</u>	<u>2.5</u>	<u>4.0</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20V0216V</u>	<u>VDC</u>	<u>0.1</u>	<u>0.4</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0222V</u>	<u>DEGREE F</u>	<u>14</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0227V</u>	<u>DEGREE F</u>	<u>14</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0228V</u>	<u>DEGREE F</u>	<u>14</u>	<u>104</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0223V</u>	<u>DEGREE F</u>	<u>32</u>	<u>140</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0224V</u>	<u>DEGREE F</u>	<u>32</u>	<u>140</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20T0225V</u>	<u>DEGREE F</u>	<u>32</u>	<u>140</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20C0205V</u>	<u>AMPS</u>	<u>0.9</u>	<u>1.2</u>			<u>2</u>	<u>7</u>	<u>M 2</u>
<u>P20C0207V</u>	<u>AMPS</u>	<u>2.4</u>	<u>3.3</u>			<u>2</u>	<u>7</u>	<u>M 2</u>

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MCC CONFIGURATION CONTROL

LIMIT SENSE DATA INPUT FORM

OFT TEST DATA BASE

DATA PACK ACRONYM CH6/PAYLOADS

LIMIT SENSE TABLE INPUT FORM

MEASUREMENT NUMBER	UNITS	***OPERATIONAL LIMITS LOW	*** LIMITS HIGH	***CRITICAL LIMITS LOW	***** LIMITS HIGH	CATEGORY	FDC	M SET S #
<u>P20T0090V</u>	<u>DEGREE F</u>	<u>64.4</u>	<u>82.4</u>			<u>3</u>	<u>7</u>	<u>M 1</u>
<u>P20T0091V</u>	<u>DEGREE F</u>	<u>64.4</u>	<u>82.4</u>			<u>3</u>	<u>7</u>	<u>M 1</u>
<u>P20T0092V</u>	<u>DEGREE F</u>	<u>64.4</u>	<u>82.4</u>			<u>3</u>	<u>7</u>	<u>M 1</u>
<u>P20C0096V</u>	<u>AMPS</u>	<u>0.25</u>	<u>0.35</u>			<u>3</u>	<u>7</u>	<u>M 1</u>
<u>P20C0097V</u>	<u>AMPS</u>	<u>5.3</u>	<u>7.3</u>			<u>3</u>	<u>7</u>	<u>M 1</u>
<u>P20C0208V</u>	<u>AMPS</u>	<u>2.6</u>	<u>3.6</u>			<u>2</u>	<u>7</u>	<u>M 1</u>
<u>P20C0208V</u>	<u>AMPS</u>	<u>2.6</u>	<u>3.6</u>			<u>2</u>	<u>7</u>	<u>M 2</u>

SECTION 6  
ANALOG/EVENT RECORDERS

6.1 RECORDER CONTROL

A Strip Chart Recorder (SCR) or Video Recorder must be configured by the console operator. Console inputs are made by the operator in real time to accomplish recorder configuration. This section specifies the controlling console for each recorder.

CONSOLE-MODULE-THUMBWHEEL POSITION TO RECORDER FORM DEFINITION:

A GIVEN RECORDER MAY HAVE ONLY "ONE" CONSOLE/MSK/THUMBWHEEL CONTROL ASSIGNMENT.

DATA PACK ACRONYM - Eg...GUIDANCE, BOOSTER, FLIGHT CONTROL, EMES,...

CONSOLE NUMBER - Enter the Identification number of the console that is to have the recorder selection capability specified on this form.

MODULE NUMBER - Enter the Module location designation of the MSK that is to used for recorder selection.

RECORDER THUMBWHEEL POSITION Identifies the Recorder Select Thumbwheel Positions.

RECORDER NUMBER - Enter the Recorder ID.

RECORDER TYPE - Enter the Recorder Type.

(10-PEN SCR -- 8 ANALOG/2 TIMING )  
(17-PEN A/E RCDR -- 8 ANALOG/7 EVENTS/2 TIMING)  
(100-PEN ER -- 96 EVENTS/4 TIMING)  
(150-PEN ER -- 144 EVENTS/6 TIMING)

CONSOLE-MODULE-THUMBWHEEL POSITION TO RECORDER FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>RECORDER SELECT THUMBWHEEL POSITION</u>	<u>RECORDER NUMBER</u>	<u>RECORDER TYPE</u>
<u>250</u>	<u>25</u>	<u>01</u>	<u>          </u>	<u>10-PEN SCR</u>
		<u>02</u>	<u>          </u>	<u>          </u>
		<u>03</u>	<u>          </u>	<u>          </u>
		<u>04</u>	<u>          </u>	<u>          </u>
		<u>05</u>	<u>          </u>	<u>          </u>
		<u>06</u>	<u>          </u>	<u>          </u>
		<u>07</u>	<u>          </u>	<u>          </u>
		<u>08</u>	<u>          </u>	<u>          </u>
		<u>09</u>	<u>          </u>	<u>          </u>
		<u>10</u>	<u>          </u>	<u>          </u>

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MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHG/PAYLO ADS

CONSOLE-MODULE-THUMBWHEEL POSITION TO RECORDER FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>RECORDER SELECT THUMBWHEEL POSITION</u>	<u>RECORDER NUMBER</u>	<u>RECORDER TYPE</u>
<u>251</u>	<u>25</u>	<u>01</u>	<u>          </u>	<u>17-PEN AER</u>
		<u>02</u>	<u>          </u>	<u>          </u>
		<u>03</u>	<u>          </u>	<u>          </u>
		<u>04</u>	<u>          </u>	<u>          </u>
		<u>05</u>	<u>          </u>	<u>          </u>
		<u>06</u>	<u>          </u>	<u>          </u>
		<u>07</u>	<u>          </u>	<u>          </u>
		<u>08</u>	<u>          </u>	<u>          </u>
		<u>09</u>	<u>          </u>	<u>          </u>
		<u>10</u>	<u>          </u>	<u>          </u>

03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

CONSOLE-MODULE-THUMBWHEEL POSITION TO RECORDER FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>RECORDER SELECT THUMBWHEEL POSITION</u>	<u>RECORDER NUMBER</u>	<u>RECORDER TYPE</u>
<u>254</u>	<u>25</u>	<u>01</u>	<u>          </u>	<u>10-PEN SCR</u>
		<u>02</u>	<u>          </u>	<u>          </u>
		<u>03</u>	<u>          </u>	<u>          </u>
		<u>04</u>	<u>          </u>	<u>          </u>
		<u>05</u>	<u>          </u>	<u>          </u>
		<u>06</u>	<u>          </u>	<u>          </u>
		<u>07</u>	<u>          </u>	<u>          </u>
		<u>08</u>	<u>          </u>	<u>          </u>
		<u>09</u>	<u>          </u>	<u>          </u>
		<u>10</u>	<u>          </u>	<u>          </u>



03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHK/PAYLOADS

CONSOLE-MODULE-THUMBWHEEL POSITION TO RECORDER FORM

<u>CONSOLE NUMBER</u>	<u>MODULE NUMBER</u>	<u>RECORDER SELECT THUMBWHEEL POSITION</u>	<u>RECORDER NUMBER</u>	<u>RECORDER TYPE</u>
<u>255</u>	<u>25</u>	<u>01</u>	<u>          </u>	<u>17-PEN AER</u>
		<u>02</u>	<u>          </u>	<u>          </u>
		<u>03</u>	<u>          </u>	<u>          </u>
		<u>04</u>	<u>          </u>	<u>          </u>
		<u>05</u>	<u>          </u>	<u>          </u>
		<u>06</u>	<u>          </u>	<u>          </u>
		<u>07</u>	<u>          </u>	<u>          </u>
		<u>08</u>	<u>          </u>	<u>          </u>
		<u>09</u>	<u>          </u>	<u>          </u>
		<u>10</u>	<u>          </u>	<u>          </u>

## 6.2 RECORDER PEN FORMATS

This section defines the recorder pen formats to be used during operations.

03-25-77

OFT REQUIREMENTS INPUT FORM  
MCC CONFIGURATION CONTROL DATA PACK ACRONYM \_\_\_\_\_

## ANALOG EVENT SYSTEM INPUT REQUIREMENTS DEFINITION

REFERENCE: JSC-100001/REV.AA/PAGE 3-31 (MCC Shuttle Development Plan)  
JSC-11028/REV.3 CH.0 (SHUTTLE Data Processing Complex Software)

THE FOLLOWING TABLE LISTS THE AES FORMAT MSK CALLUP NUMBERS vs  
AES PEN GROUP NUMBERS.

AES FORMAT NUMBER (MSK CALLUP NUM)	AES PEN GROUP NUMBER	PEN GROUP DESCRIPTION
000	000	FORMAT DESELECT
001	001	8-PEN GROUP
002	002	8-PEN GROUP
003	003	8-PEN GROUP
004	004	8-PEN GROUP
005	005	8-PEN GROUP
006	006	8-PEN GROUP
007	007	8-PEN GROUP
008	008	8-PEN GROUP
009	009	8-PEN GROUP
010	010	8-PEN GROUP
011	011	8-PEN GROUP
012	012	8-PEN GROUP
013	013	8-PEN GROUP
014	014	15-PEN GROUP
015	015	15-PEN GROUP
016	016	15-PEN GROUP
017	017	15-PEN GROUP
018	018	15-PEN GROUP
019	019	15-PEN GROUP
020	020	15-PEN GROUP
021	021	15-PEN GROUP
022	022	15-PEN GROUP
023	023	15-PEN GROUP
024	024	15-PEN GROUP
025	025	15-PEN GROUP
026	026	15-PEN GROUP
027	027	15-PEN GROUP
028	028	15-PEN GROUP
029	029	15-PEN GROUP
030	030	15-PEN GROUP
031	031	15-PEN GROUP
032	032	15-PEN GROUP
033	033	15-PEN GROUP
034	034	15-PEN GROUP
035	035	15-PEN GROUP
036	036	15-PEN GROUP
037	037	15-PEN GROUP
038	038	15-PEN GROUP
039	039	15-PEN GROUP

AES FORMAT MSK CALLUP NUMBERS vs AES PEN GROUP NUMBERS (CONT'D)

<u>AES FORMAT NUMBER</u> <u>(MSK CALLUP NUM)</u>	<u>AES PEN GROUP NUMBER</u>	<u>PEN GROUP DESCRIPTION</u>
040	040	15-PEN GROUP
041	041	15-PEN GROUP
042	042	15-PEN GROUP
043	043	15-PEN GROUP
044	044	15-PEN GROUP
045	045	15-PEN GROUP
046	046	15-PEN GROUP
047	047	15-PEN GROUP
048	048	15-PEN GROUP
049	049	15-PEN GROUP
050	050	15-PEN GROUP
051	051	15-PEN GROUP
052	_____ & _____	PEN GROUP "COUPLING"
053	_____ & _____	PEN GROUP "COUPLING"
054	_____ & _____	PEN GROUP "COUPLING"
055	_____ & _____	PEN GROUP "COUPLING"
056	_____ & _____	PEN GROUP "COUPLING"
057	_____ & _____	PEN GROUP "COUPLING"
058	_____ & _____	PEN GROUP "COUPLING"
059	_____ & _____	PEN GROUP "COUPLING"
060	_____ & _____	PEN GROUP "COUPLING"
061	_____ & _____	PEN GROUP "COUPLING"
062	<u>400</u> & <u>401</u> & <u>402</u> & <u>403</u>	24-PEN GROUPS TO THE 100-PEN EVENT RECORDER
063	<u>600</u> & <u>601</u> & <u>602</u> & <u>603</u> & <u>604</u> & <u>605</u>	24-PEN GROUPS TO THE 150-PEN EVENT RECORDER
064	<u>606</u> & <u>607</u> & <u>608</u> & <u>609</u> & <u>610</u> & <u>611</u>	24-PEN GROUPS TO THE 150-PEN EVENT RECORDER

NOTE: THERE WILL BE A "SET" OF THESE AES PEN GROUPS FOR EACH DOWNLINK COMBINATION.

THE MAXIMUM ALLOWABLE RANGE FOR USE IN AES FORMAT (MSK CALLUP) SELECTION IS FROM 000 THRU 255 (DECIMAL). THE RANGE OF AES/MSK FORMAT NUMBERS FROM 001 THRU 068 HAVE BEEN RESERVED FOR OD LINK SELECT. ADDITIONALLY, AES/MSK FORMAT NUMBER 000 IS USED FOR AES FORMAT DESELECTION.

03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

AES FORMAT FORM FOR 8-PEN ANALOG GROUP \_\_\_\_\_

AES FORMAT NUMBER 044 / DOWNLINK COMBINATION \_\_\_\_\_

(MSK CALLUP NUMBER)

PEN NUM	MEASUREMENT NUMBER	SPECIAL PROCESSING CODE	MEASUREMENT DESCRIPTION
------------	-----------------------	-------------------------------	-------------------------

T1			(TIME) <u>MTU - 1 MET</u>
01	<u>P20T0090V</u>		<u>SCAN BASEPLATE TEMP</u>
02	<u>P20T0091V</u>		<u>MEA BASEPLATE TEMP</u>
03	<u>P20T0092V</u>		<u>MEA ELECT TEMP</u>
04	<u>P20C0096V</u>		<u>SCAN AC CURRENT</u>
05	<u>P20C0097V</u>		<u>TOTAL CURRENT</u>
06			
07			
08			
T2			(TIME) <u>MTU - 1 GMT</u>

NOTE: ALL MEASUREMENTS FOR A GIVEN AES FORMAT MUST BE FROM THE SAME DATA SOURCE.  
(OI, GPC1, etc...)

\*\* ALTHOUGH 'TIMES' OTHER THAN 'SPACECRAFT TIMES' WILL BE AVAILABLE  
VIA THE TIME SELECT SWITCHES AT THE RECORDERS, ONLY THOSE TIMES THAT  
ARE IN THE "TELEMETRY" STREAM ARE TO BE ENTERED INTO AN AES PEN GROUP  
FORMAT.

THE FOLLOWING TIMES HAVE BEEN IDENTIFIED FOR REQUESTS VIA AES PEN GROUP  
FORMATS:

- o ORBITER MTU-1 GMT
- o ORBITER MTU-2 GMT
- o ORBITER MTU-1 MET
- o ORBITER MTU-2 MET
- o ORBITER PRIME GPC-GMT
- o ORBITER PRIME GPC-MET
- o TPC INTERNAL TIMER
- o PAYLOAD TIME

AES FORMAT FORM FOR 8-PEN ANALOG GROUP

AES FORMAT NUMBER 045 / DOWNLINK COMBINATION \_\_\_\_\_

(MSK CALLUP NUMBER)

PEN NUM	MEASUREMENT NUMBER	SPECIAL PROCESSING CODE	MEASUREMENT DESCRIPTION
T1			(TIME) <u>MTU -1 MET</u>
01	<u>P2040195V</u>		<u>ESG DELAY</u>
02	<u>P2040196V</u>		<u>ESG ANALOG</u>
03	<u>P20E0201V</u>		<u>FORWARD XMTR POWER</u>
04	<u>P20E0202V</u>		<u>REFLECTED XMTR POWER</u>
05	<u>P20H0239V</u>		<u>FILM REMAINING</u>
06	<u>P20T0227V</u>		<u>RADAR BASEPLATE TEMP</u>
07	<u>P20T0221V</u>		<u>FWD/REFL PWR MON TEMP</u>
08	<u>P20E0200V</u>		<u>INTEG ECHO AMP</u>
T2			(TIME) <u>MTU -1 GMT</u>

NOTE: ALL MEASUREMENTS FOR A GIVEN AES FORMAT MUST BE FROM THE SAME DATA SOURCE.  
(OI, GPC1, etc....)

\*\* ALTHOUGH 'TIMES' OTHER THAN 'SPACECRAFT TIMES' WILL BE AVAILABLE VIA THE TIME SELECT SWITCHES AT THE RECORDERS, ONLY THOSE TIMES THAT ARE IN THE "TELEMETRY" STREAM ARE TO BE ENTERED INTO AN AES PEN GROUP FORMAT.

THE FOLLOWING TIMES HAVE BEEN IDENTIFIED FOR REQUESTS VIA AES PEN GROUP FORMATS:

- o ORBITER MTU-1 GMT
- o ORBITER MTU-2 GMT
- o ORBITER MTU-1 MET
- o ORBITER MTU-2 MET
- o ORBITER PRIME GPC-GMT
- o ORBITER PRIME GPC-MET
- o TPC INTERNAL TIMER
- o PAYLOAD TIME

03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CHG/PAYLOADS

AES FORMAT FORM FOR 8-PEN ANALOG GROUP \_\_\_\_\_

AES FORMAT NUMBER 046 / DOWNLINK COMBINATION \_\_\_\_\_  
(MSK CALLUP NUMBER)

PEN NUM	MEASUREMENT NUMBER	SPECIAL PROCESSING CODE	MEASUREMENT DESCRIPTION
T1			(TIME) <u>MTU-1 MET</u>
01	<u>P2040195V</u>		<u>ESG DELAY</u>
02	<u>P2040196V</u>		<u>ESG ANALOG</u>
03	<u>P20T0228V</u>		<u>OPTICAL RCDR TEMP</u>
04	<u>P20T0225V</u>		<u>PWR AMP C TEMP</u>
05	<u>P20V0217V</u>		<u>INPUT BUS VOLT</u>
06	<u>P20C0209V</u>		<u>STBY INPUT CUR 1</u>
07	<u>P20C0210V</u>		<u>OPER INPUT CURRENT</u>
08	<u>P20T0222V</u>		<u>RECEIVER TEMP</u>
T2			(TIME) <u>MTU-1 GMT</u>

NOTE: ALL MEASUREMENTS FOR A GIVEN AES FORMAT MUST BE FROM THE SAME DATA SOURCE.  
(OI, GPC1, etc...)

\*\* ALTHOUGH 'TIMES' OTHER THAN 'SPACECRAFT TIMES' WILL BE AVAILABLE VIA THE TIME SELECT SWITCHES AT THE RECORDERS, ONLY THOSE TIMES THAT ARE IN THE "TELEMETRY" STREAM ARE TO BE ENTERED INTO AN AES PEN GROUP FORMAT.

THE FOLLOWING TIMES HAVE BEEN IDENTIFIED FOR REQUESTS VIA AES PEN GROUP FORMATS:

- o ORBITER MTU-1 GMT
- o ORBITER MTU-2 GMT
- o ORBITER MTU-1 MET
- o ORBITER MTU-2 MET
- o ORBITER PRIME GPC-GMT
- o ORBITER PRIME GPC-MET
- o TPC INTERNAL TIMER
- o PAYLOAD TIME

AES FORMAT FORM FOR 8-PEN ANALOG GROUP

AES FORMAT NUMBER 047 / DOWNLINK COMBINATION \_\_\_\_\_  
(MSK CALLUP NUMBER)

PEN NUM	MEASUREMENT NUMBER	SPECIAL PROCESSING CODE	MEASUREMENT DESCRIPTION
T1			(TIME) MTU-1 MET
01	<u>P2040195V</u>		<u>ESG DELAY</u>
02	<u>P2040196V</u>		<u>ESG ANALOG</u>
03	<u>P20V0216V</u>		<u>CAL REF VOLTS</u>
04	<u>P20C0208V</u>		<u>TXOP 14 CURRENT</u>
05	<u>P20C0205V</u>		<u>TXOP 9 CURRENT</u>
06	<u>P20T0224V</u>		<u>PWR AMP B TEMP</u>
07	<u>P20T0223V</u>		<u>PWR AMP A TEMP</u>
08	<u>P20C0207V</u>		<u>TXOP 13 CURRENT</u>
T2			(TIME) MTU-1 GMT

NOTE: ALL MEASUREMENTS FOR A GIVEN AES FORMAT MUST BE FROM THE SAME DATA SOURCE.  
(OI, GPC1, etc...)

\*\* ALTHOUGH 'TIMES' OTHER THAN 'SPACECRAFT TIMES' WILL BE AVAILABLE VIA THE TIME SELECT SWITCHES AT THE RECORDERS, ONLY THOSE TIMES THAT ARE IN THE "TELEMETRY" STREAM ARE TO BE ENTERED INTO AN AES PEN GROUP FORMAT.

THE FOLLOWING TIMES HAVE BEEN IDENTIFIED FOR REQUESTS VIA AES PEN GROUP FORMATS:

- o ORBITER MTU-1 GMT
- o ORBITER MTU-2 GMT
- o ORBITER MTU-1 MET
- o ORBITER MTU-2 MET
- o ORBITER PRIME GPC-GMT
- o ORBITER PRIME GPC-MET
- o TPC INTERNAL TIMER
- o PAYLOAD TIME



03-25-77  
MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

AES FORMAT FORM FOR 8-PEN ANALOG GROUP

AES FORMAT NUMBER 048 / DOWNLINK COMBINATION

(MSK CALLUP NUMBER)

PEN NUM	MEASUREMENT NUMBER	SPECIAL PROCESSING CODE	MEASUREMENT DESCRIPTION
------------	-----------------------	-------------------------------	-------------------------

T1			(TIME) <u>MTU-1 MET</u>
----	--	--	-------------------------

01	<u>P2040195V</u>		<u>ESG DELAY</u>
----	------------------	--	------------------

02	<u>P2040196V</u>		<u>ESG ANALOG</u>
----	------------------	--	-------------------

03	<u>P20E0206V</u>		<u>VIDEO STATUS</u>
----	------------------	--	---------------------

04	<u>P20T0226V</u>		<u>CASSETTE TEMP</u>
----	------------------	--	----------------------

05			
----	--	--	--

06			
----	--	--	--

07			
----	--	--	--

08			
----	--	--	--

T2			(TIME) <u>MTU-1 GMT</u>
----	--	--	-------------------------

NOTE: ALL MEASUREMENTS FOR A GIVEN AES FORMAT MUST BE FROM THE SAME DATA SOURCE.  
(OI, GPC1, etc...)

\*\* ALTHOUGH 'TIMES' OTHER THAN 'SPACECRAFT TIMES' WILL BE AVAILABLE VIA THE TIME SELECT SWITCHES AT THE RECORDERS, ONLY THOSE TIMES THAT ARE IN THE "TELEMETRY" STREAM ARE TO BE ENTERED INTO AN AES PEN GROUP FORMAT.

THE FOLLOWING TIMES HAVE BEEN IDENTIFIED FOR REQUESTS VIA AES PEN GROUP FORMATS:

- o ORBITER MTU-1 GMT
- o ORBITER MTU-2 GMT
- o ORBITER MTU-1 MET
- o ORBITER MTU-2 MET
- o ORBITER PRIME GPC-GMT
- o ORBITER PRIME GPC-MET
- o TPC INTERNAL TIMER
- o PAYLOAD TIME

## SECTION 7

### SUMMARY MESSAGE ENABLE KEYBOARD

The Summary Message Enable Keyboard (SMEK) is a multifunction module which permits the console operator to initiate real-time inputs to enable/disable the boundaries of limit-sensed parameters and to generate tabulated data in predefined formats. This section defines the configuration of the SMEK module.

03-25-77

OFT REQUIREMENTS INPUT FORM  
MCC CONFIGURATION CONTROL

SUMMARY MESSAGE ENABLE KEYBOARD INPUT FORM EXPLANATION:

DATA PACK ACRONYM - Eg...GUIDANCE, BOOSTER, FLIGHT CONTROL, EMES,...

ROOM NO - Enter the room number that the console is located in.

CONSOLE NO - Enter the Console number.

CONSOLE TITLE - Enter the Console Title Eg...COMPUTER SUP

MODULE LOCATION - Enter the Module location designation number. This number will always be greater than 19 for this type of module.

MODULE NAME - Enter 'SMEK'

MODULE TYPE - Enter 'A19/A'

PBI LOC - This number relates to the physical location (and software identifier) of each PBI on this module.

01	06	11	16	21	26	31	36
02	07	12	17	22	27	32	37
03	08	13	18	23	28	33	38
04	09	14	19	24	29	34	39
05	10	15	20	25	30	35	40

CLR - Colors available are:  
RED, GREEN, AMBER, BLUE & WHITE (R,G,A,B & W)

LABEL - Enter the label required . Labels are limited to 5 Lines/6 Characters each (Space=Character).

MEASUREMENT - Enter the DPB assigned SMEK measurement number.

PAYLOAD 8 (EXPERIMENTS) CSL 257

SMEK

SIR-A HIST 3324				SIR-A LIMITS SET 1				SIM
				SIR-A LIMITS SET 2				PB1
PALLET HIST				OCE LIMITS				PB2
EXP HIST 3321								EXECUT
				ENABLE LIMITS			DISABLE LIMITS	CLEAR

03-25-77

MEC CONFIGURATION CONTROL

SUMMARY MESSAGE ENABLE KEYBOARD  
OPT REQUIREMENTS INPUT FORMDATA PACK ACRONYM CH6/PAYLOAD

ROOM NO: 213

CONSOLE NO: 257

CONSOLE TITLE: PAYLOAD 8

MODULE LOCATION:

MODULE NAME: SMEX

MODULE TYPE:

FBI LOC	CLR	LABEL	MEASUREMENT
01	W	<u>SIR-A · HIST · 3324</u>	
02			
03	W	<u>PALLET · HIST</u>	
04		<u>EXP · HIST · 3321</u>	
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21	W	<u>SIR-A · LIMITS · SET 1</u>	
22		<u>SIR-A · LIMITS · SET 2</u>	
23		<u>OCE · LIMITS</u>	
24			
25		<u>ENABLE · LIMITS</u>	
26			
27			
28			
29			
30		<u>DISABLE · LIMITS</u>	
31			
32			
33			
34			
35			
36		<u>SIM</u>	
37		<u>PB 1</u>	
38		<u>PB 2</u>	
39		<u>EXECUT</u>	
40		<u>CLEAR</u>	

## SECTION 8

### MULTIPLE COMMAND MODULE

The Multiple Command Module (MCM) is a special-purpose module which provides the console operator with the capability of initiating uplink of prestored data. This section defines the configuration of the MCM module.

03-25-77

MCC CONFIGURATION CONTROL

OFT REQUIREMENTS INPUT FORM

MULTIPLE COMMAND MODULE (MCM) REQUIREMENTS INPUT FORM EXPLANATION:

DATA PACK ACRONYM - Eg...GUIDANCE, BOOSTER, FLIGHT CONTROL, EMES,...

ROOM NO - Enter the room number that the console is located in.

CONSOLE NO - Enter the Console Number.

CONSOLE TITLE - Enter the Console Title Eg...COMPUTER SUP

MODULE LOCATION - Enter the Module Location designation number. This number will always be greater than 19 for this type of module.

MODULE NAME - MULTIPLE COMMAND MODULE (MCM)

MODULE TYPE - DRK4

FIELD SELECT PBI - PBI'S 01 THRU 12. Depression of one of these PBIs selects a field of 32 possible 'commands'.  
  
Eg.... PBI-01 depressed will cause lamp-01 of each of the 32 Rear Projection Readouts to illuminate, thereby indicating, for this field select PBI depression, the 'command' which will result from depression of each of the 32 Rear Projection Readouts.

R/O NUM - THE Rear Projection Readout/Switch number is shown under this header.

LAMP NUM - The Lamp Number (01 thru 12) of the readout is shown under this header.

LABEL - For 'Field Select PBI' entries, enter the Command Field Title.  
Note: Field Titles are limited to 3 Lines/8 Characters each. (BLANK=CHARACTER)  
  
For 'R/O NUM' entries, enter the Command Label required.  
Note: Command Select Labels are limited to 4 Lines/8 Characters each. (BLANK=CHARACTER)

MEASUREMENT - Enter the Command Parameter Measurement Number as assigned by SLAPS/GDSD.

1	2	3	4	5	6
7	8	9	10	11	12
CLEAR	IECM	OEX			

--	--	--

2011	IECM LAUNCH MODE	2012	IECM ORBIT MODE	2013	IECM DEORBIT MODE	2010	IECM M3M RESET
2001	ACIP ON	2002	ACIP TEST	2000	ACIP OFF		



		OFT PALLET SYSTEMS							
	1	2	3	4	5	6			
CLEAR	7	8	9	10	11	12			

2118 PUMPS 1 ON/ 2 OFF <sub>1</sub>	2120 PUMPS 2 ON/ 1 OFF <sub>2</sub>	2122 PUMPS OFF <sub>3</sub>	2100 K2 MAPS ON	2102 K3 OCE ON	2104 K4 SMIRR ON	2106 K5 FILE ON	2112 K8 SIR-A ON
2119 PUMP 1 OFF <sub>9</sub>	2121 PUMP 2 OFF <sub>10</sub>	2123 K2-9 DC OFF <sub>11</sub>	2101 K2 MAPS OFF <sub>12</sub>	2103 K3 OCE OFF <sub>13</sub>	2105 K4 SMIRR OFF <sub>14</sub>	2107 K5 FILE OFF	2113 K8 SIR-A OFF
2116 K12-AC ON <sub>17</sub>	2117 K12-AC OFF	2110 K7 ON	2111 K7 OFF	2114 K9 ON	2115 K9 OFF	2108 K6 FILE HTR ON	2109 K6 FILE HTR OFF

--	--	--



				SIR-A			
	1	2	3	4	5	6	
CLEAR	7	8	9	10	11	12	

--	--	--

2242 SEQR OFF	2225 RADAR O/R ON	2223 RADAR O/R OFF	2221 RADAR XMIT/ RECORD	2214 RADAR XMIT OFF	2216 LEADER ON	2238 LC MUX 0	2239 LC MUX 1
2146 GAIN AGC			2211 STC ON	2212 STC OFF	2213 CHL OFF	2240 LC MUX 2	2241 LC MUX 3
2138 GAIN 77dB	2139 GAIN 80dB	2140 GAIN 83dB	2141 GAIN 86dB	2142 GAIN 89dB	2143 GAIN 92dB	2144 GAIN 95dB	2145 GAIN 98dB
2137 PRF 1464 PPS	2131 PRF 1540 PPS	2132 PRF 1581 PPS	2130 PRF 1624 PPS	2133 PRF 1670 PPS	2134 PRF 1718 PPS	2135 PRF 1770 PPS	2136 PRF 1824 PPS

					SIR-A STC	
	1	2	3	4	5	6
CLEAR	7	8	9	10	11	12

2211 STC ON	2212 STC OFF	2147 STC 0	2150 STC 3	2153 STC 6	2156 STC 9	2159 STC 12	2162 STC 15
2165 STC 18	2168 STC 21	2171 STC 24	2174 STC 27	2177 STC 30	2180 STC 33	2183 STC 36	2186 STC 39
2189 STC 42	2192 STC 45	2195 STC 48	2198 STC 51	2201 STC 54	2204 STC 57	2207 STC 60	2210 STC 63

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03-25-77  
MCC CONFIGURATION CONTROL

MULTIPLE COMMAND MODULE INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

PAGE 1

ROOM NO: 213  
CONSOLE NO: 252  
CONSOLE TITLE: PAYLOAD 3

MODULE LOCATION: 30  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM)  
MODULE TYPE: DRK4

FIELD SELECT FBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT	
01			<u>IECM . OEX</u>		CMD FIELD SELECT
	01	01	<u>2011 . IECM . LAUNCH . MODE</u>	<u>P30K 0001H</u>	COMMAND CIM
	02	01	<u>2012 . IECM . ORBIT . MODE</u>	<u>P30K 0002H</u>	COMMAND CIM
	03	01	<u>2013 . IECM . DEORBIT . MODE</u>	<u>P30K 0003H</u>	COMMAND CIM
	04	01	<u>2010 . IECM . ADM . RESET</u>	<u>P30K 0018H</u>	COMMAND CIM
	05	01			COMMAND CIM
	06	01			COMMAND CIM
	07	01			COMMAND CIM
	08	01			COMMAND CIM
	09	01	<u>2001 . ACIP . ON</u>	<u>V07K 9031H</u>	COMMAND CIM
	10	01	<u>2002 . ACIP . TEST</u>	<u>V07K 9033H</u>	COMMAND CIM
	11	01	<u>2003 . ACIP . OFF</u>	<u>V07K 9030H</u>	COMMAND CIM
	12	01			COMMAND CIM
	13	01			COMMAND CIM
	14	01			COMMAND CIM
	15	01			COMMAND CIM
	16	01			COMMAND CIM
	17	01			COMMAND CIM
	18	01			COMMAND CIM
	19	01			COMMAND CIM
	20	01			COMMAND CIM
	21	01			COMMAND CIM
	22	01			COMMAND CIM
	23	01			COMMAND CIM
	24	01			COMMAND CIM
	25	01			COMMAND CIM
	26	01			COMMAND CIM
	27	01			COMMAND CIM
	28	01			COMMAND CIM
	29	01			COMMAND CIM
	30	01			COMMAND CIM
	31	01			COMMAND CIM
	32	01			COMMAND CIM
02			<u>OFT . PALLET . SYSTEMS</u>		CMD FIELD SELECT
	01	02	<u>2118 . PUMPS . 1 ON / . 2 OFF</u>	<u>P03K 1074H</u>	COMMAND CIM
	02	02	<u>2120 . PUMPS . 2 ON / . 1 OFF</u>	<u>P03K 1076H</u>	COMMAND CIM
	03	02	<u>2122 . PUMPS . OFF</u>	<u>P03K 1077H</u>	COMMAND CIM
	04	02	<u>2100 . K2 . MAPS . ON</u>	<u>P03K 1044H</u>	COMMAND CIM
	05	02	<u>2102 . K3 . OCE . ON</u>	<u>P03K 1047H</u>	COMMAND CIM
	06	02	<u>2104 . K4 . SMIR . ON</u>	<u>P03K 1050H</u>	COMMAND CIM
	07	02	<u>2106 . K5 . FILE . ON</u>	<u>P03K 1041H</u>	COMMAND CIM
	08	02	<u>2112 . K8 . SIR . A . ON</u>	<u>P03K 1052H</u>	COMMAND CIM
	09	02	<u>2119 . PUMP . 1 . OFF</u>	<u>P03K 1069H</u>	COMMAND CIM
	10	02	<u>2121 . PUMP . 2 . OFF</u>	<u>P03K 1072H</u>	COMMAND CIM
	11	02	<u>2123 . K2-9 DC . OFF</u>	<u>P03K 1078H</u>	COMMAND CIM
	12	02	<u>2101 . K2 . MAPS . OFF</u>	<u>P03K 1045H</u>	COMMAND CIM

ROOM NO: 213  
CONSOLE NO: 252  
CONSOLE TITLE: PAYLOAD 3

MODULE LOCATION: 30  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT	
	13	02	<u>2103.K3.OCE.OFF</u>	<u>P03K10484</u>	COMMAND CIM
	14	02	<u>2105.K4.SMIRR.OFF</u>	<u>P03K10514</u>	COMMAND CIM
	15	02	<u>2107.K5.FILE.OFF</u>	<u>P03K10424</u>	COMMAND CIM
	16	02	<u>2113.K8.SIR-A.OFF</u>	<u>P03K10544</u>	COMMAND CIM
	17	02	<u>2116.K12-AC.ON</u>	<u>P03K10654</u>	COMMAND CIM
	18	02	<u>2117.K12-AC.OFF</u>	<u>P03K10664</u>	COMMAND CIM
	19	02	<u>2110.K7.ON</u>	<u>P03K10594</u>	COMMAND CIM
	20	02	<u>2111.K7.OFF</u>	<u>P03K10604</u>	COMMAND CIM
	21	02	<u>2114.K9.ON</u>	<u>P03K10624</u>	COMMAND CIM
	22	02	<u>2115.K9.OFF</u>	<u>P03K10634</u>	COMMAND CIM
	23	02	<u>2108.K6.FILE HTR.ON</u>	<u>P03K10564</u>	COMMAND CIM
	24	02	<u>2109.K6.FILE HTR.OFF</u>	<u>P03K10574</u>	COMMAND CIM
	25	02			COMMAND CIM
	26	02			COMMAND CIM
	27	02			COMMAND CIM
	28	02			COMMAND CIM
	29	02			COMMAND CIM
	30	02			COMMAND CIM
	31	02			COMMAND CIM
	32	02			COMMAND CIM
			<u>MAPS.OCE.SMIRR</u>		CMD FIELD SELECT
03	01	03	<u>2351.MAPS.POWER.ON</u>	<u>P20K00564</u>	COMMAND CIM
	02	03	<u>2350.MAPS.POWER.RESET</u>	<u>P20K00534</u>	COMMAND CIM
	03	03	<u>2352.MAPS.POWER.OFF</u>	<u>P20K00574</u>	COMMAND CIM
	04	03	<u>2353.MAPS.REBAL</u>	<u>P20K00584</u>	COMMAND CIM
	05	03	<u>2354.MAPS.REBAL.RESET</u>	<u>P20K00544</u>	COMMAND CIM
	06	03	<u>2360.OCE.POWER.ON</u>	<u>P20K00714</u>	COMMAND CIM
	07	03	<u>2361.OCE.POWER.OFF</u>	<u>P20K00724</u>	COMMAND CIM
	08	03	<u>4562.P/L REC.RCDB/S2.OCE</u>	<u>V75K63564</u>	COMMAND CIM
	09	03			COMMAND CIM
	10	03			COMMAND CIM
	11	03	<u>2104.K4.SMIRR.ON</u>	<u>P03K10504</u>	COMMAND CIM
	12	03	<u>2376.SMIRR.AUTO.ON</u>	<u>P20K01074</u>	COMMAND CIM
	13	03	<u>2374.SMIRR.CAL.ON</u>	<u>P20K01054</u>	COMMAND CIM
	14	03	<u>2372.SMIRR.COVER.OPEN</u>	<u>P20K01034</u>	COMMAND CIM
	15	03	<u>2370.SMIRR.MODE.OPERATE</u>	<u>P20K01014</u>	COMMAND CIM
	16	03	<u>4550.P/L REC.RCDA/S1.SMIRR</u>	<u>V75K63454</u>	COMMAND CIM
	17	03			COMMAND CIM
	18	03			COMMAND CIM
	19	03	<u>2105.K4.SMIRR.OFF</u>	<u>P03K10514</u>	COMMAND CIM
	20	03	<u>2377.SMIRR.AUTO.OFF</u>	<u>P20K01084</u>	COMMAND CIM
	21	03	<u>2375.SMIRR.CAL.OFF</u>	<u>P20K01064</u>	COMMAND CIM
	22	03	<u>2373.SMIRR.COVER.CLOSE</u>	<u>P20K01044</u>	COMMAND CIM
	23	03	<u>2371.SMIRR.MODE.STBY</u>	<u>P20K01024</u>	COMMAND CIM
	24	03	<u>4551.P/L REC.STOP</u>	<u>V75K63534</u>	COMMAND CIM
	25	03			COMMAND CIM

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MULTIPLE COMMAND MODULE INPUT FORM  
DATA PACK ACRONYM CHG/PAYLOADS

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ROOM NO: 213  
CONSOLE NO: 252  
CONSOLE TITLE: PAYLOAD 3

MODULE LOCATION: 30  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT	
	26	03			COMMAND CIM
	27	03			COMMAND CIM
	28	03			COMMAND CIM
	29	03			COMMAND CIM
	30	03			COMMAND CIM
	31	03			COMMAND CIM
	32	03			COMMAND CIM
04			<u>SIR-A</u>		CMD FIELD SELECT
	01	04	<u>2242. SEQR. OFF</u>	<u>P20K03774</u>	COMMAND CIM
	02	04	<u>2225. RADAR. O/R. ON</u>	<u>P20K03604</u>	COMMAND CIM
	03	04	<u>2223. RADAR. O/R. OFF</u>	<u>P20K03574</u>	COMMAND CIM
	04	04	<u>2221. RADAR. XMIT/RECORD</u>	<u>P20K03564</u>	COMMAND CIM
	05	04	<u>2214. RADAR. XMIT. OFF</u>	<u>P20K03494</u>	COMMAND CIM
	06	04	<u>2216. LEADER. ON</u>	<u>P20K03514</u>	COMMAND CIM
	07	04	<u>2238. LC MUX. 0</u>	<u>P20K03734</u>	COMMAND CIM
	08	04	<u>2239. LC MUX. 1</u>	<u>P20K03744</u>	COMMAND CIM
	09	04	<u>2146. GAIN. AGC.</u>	<u>P20K02814</u>	COMMAND CIM
	10	04			COMMAND CIM
	11	04			COMMAND CIM
	12	04	<u>2211. STC. ON</u>	<u>P20K03464</u>	COMMAND CIM
	13	04	<u>2212. STC. OFF</u>	<u>P20K03474</u>	COMMAND CIM
	14	04	<u>2213. CAL. OFF</u>	<u>P20K03484</u>	COMMAND CIM
	15	04	<u>2240. LC MUX. 2</u>	<u>P20K03754</u>	COMMAND CIM
	16	04	<u>2241. LC MUX. 3</u>	<u>P20K03764</u>	COMMAND CIM
	17	04	<u>2138. GAIN. 77dB</u>	<u>P20K02734</u>	COMMAND CIM
	18	04	<u>2139. GAIN. 80dB</u>	<u>P20K02744</u>	COMMAND CIM
	19	04	<u>2140. GAIN. 83dB</u>	<u>P20K02754</u>	COMMAND CIM
	20	04	<u>2141. GAIN. 86dB</u>	<u>P20K02764</u>	COMMAND CIM
	21	04	<u>2142. GAIN. 89dB</u>	<u>P20K02774</u>	COMMAND CIM
	22	04	<u>2143. GAIN. 92dB</u>	<u>P20K02784</u>	COMMAND CIM
	23	04	<u>2144. GAIN. 95dB</u>	<u>P20K02794</u>	COMMAND CIM
	24	04	<u>2145. GAIN. 98dB</u>	<u>P20K02804</u>	COMMAND CIM
	25	04	<u>2137. PRF. 1464. pps</u>	<u>P20K02654</u>	COMMAND CIM
	26	04	<u>2131. PRF. 1540. pps</u>	<u>P20K02664</u>	COMMAND CIM
	27	04	<u>2132. PRF. 1581. pps</u>	<u>P20K02674</u>	COMMAND CIM
	28	04	<u>2130. PRF. 1624. pps</u>	<u>P20K02684</u>	COMMAND CIM
	29	04	<u>2133. PRF. 1670. pps</u>	<u>P20K02694</u>	COMMAND CIM
	30	04	<u>2134. PRF. 1718. pps</u>	<u>P20K02704</u>	COMMAND CIM
	31	04	<u>2135. PRF. 1770. pps</u>	<u>P20K02714</u>	COMMAND CIM
	32	04	<u>2136. PRF. 1824. pps</u>	<u>P20K02724</u>	COMMAND CIM
05			<u>SIR-A. STC</u>		CMD FIELD SELECT
	01	05	<u>2211. STC. ON</u>	<u>P20K03464</u>	COMMAND CIM
	02	05	<u>2212. STC. OFF</u>	<u>P20K03474</u>	COMMAND CIM
	03	05	<u>2147. STC. 0</u>	<u>P20K02824</u>	COMMAND CIM
	04	05	<u>2150. STC. 3</u>	<u>P20K02854</u>	COMMAND CIM
	05	05	<u>2153. STC. 6</u>	<u>P20K02884</u>	COMMAND CIM

ROOM NO: 213  
CONSOLE NO: 252  
CONSOLE TITLE: PAYLOAD 3

MODULE LOCATION: 30  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT	
	06	05	<u>2156. STC. 9</u>	<u>P20K02914</u>	COMMAND CIM
	07	05	<u>2159. STC. 12</u>	<u>P20K02944</u>	COMMAND CIM
	08	05	<u>2162. STC. 15</u>	<u>P20K02974</u>	COMMAND CIM
	09	05	<u>2165. STC. 18</u>	<u>P20K03004</u>	COMMAND CIM
	10	05	<u>2168. STC. 21</u>	<u>P20K03034</u>	COMMAND CIM
	11	05	<u>2171. STC. 24</u>	<u>P20K03064</u>	COMMAND CIM
	12	05	<u>2174. STC. 27</u>	<u>P20K03094</u>	COMMAND CIM
	13	05	<u>2177. STC. 30</u>	<u>P20K03124</u>	COMMAND CIM
	14	05	<u>2180. STC. 33</u>	<u>P20K03154</u>	COMMAND CIM
	15	05	<u>2183. STC. 36</u>	<u>P20K03184</u>	COMMAND CIM
	16	05	<u>2186. STC. 39</u>	<u>P20K03214</u>	COMMAND CIM
	17	05	<u>2189. STC. 42</u>	<u>P20K03244</u>	COMMAND CIM
	18	05	<u>2192. STC. 45</u>	<u>P20K03274</u>	COMMAND CIM
	19	05	<u>2195. STC. 48</u>	<u>P20K03304</u>	COMMAND CIM
	20	05	<u>2198. STC. 51</u>	<u>P20K03334</u>	COMMAND CIM
	21	05	<u>2201. STC. 54</u>	<u>P20K03364</u>	COMMAND CIM
	22	05	<u>2204. STC. 57</u>	<u>P20K03394</u>	COMMAND CIM
	23	05	<u>2207. STC. 60</u>	<u>P20K03424</u>	COMMAND CIM
	24	05	<u>2210. STC. 63</u>	<u>P20K03454</u>	COMMAND CIM
	25	05			COMMAND CIM
	26	05			COMMAND CIM
	27	05			COMMAND CIM
	28	05			COMMAND CIM
	29	05			COMMAND CIM
	30	05			COMMAND CIM
	31	05			COMMAND CIM
	32	05			COMMAND CIM
					CMD FIELD SELECT
	01	06			COMMAND CIM
	02	06			COMMAND CIM
	03	06			COMMAND CIM
	04	06			COMMAND CIM
	05	06			COMMAND CIM
	06	06			COMMAND CIM
	07	06			COMMAND CIM
	08	06			COMMAND CIM
	09	06			COMMAND CIM
	10	06			COMMAND CIM
	11	06			COMMAND CIM
	12	06			COMMAND CIM
	13	06			COMMAND CIM
	14	06			COMMAND CIM
	15	06			COMMAND CIM
	16	06			COMMAND CIM
	17	06			COMMAND CIM
	18	06			COMMAND CIM

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MCC CONFIGURATION CONTROL

MULTIPLE COMMAND MODULE INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

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ROOM NO:  
CONSOLE NO:  
CONSOLE TITLE:

MODULE LOCATION:  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT
	19	06		COMMAND CIM
	20	06		COMMAND CIM
	21	06		COMMAND CIM
	22	06		COMMAND CIM
	23	06		COMMAND CIM
	24	06		COMMAND CIM
	25	06		COMMAND CIM
	26	06		COMMAND CIM
	27	06		COMMAND CIM
	28	06		COMMAND CIM
	29	06		COMMAND CIM
	30	06		COMMAND CIM
	31	06		COMMAND CIM
	32	06		COMMAND CIM
				CMD FIELD SELECT
	01	07		COMMAND CIM
	02	07		COMMAND CIM
	03	07		COMMAND CIM
	04	07		COMMAND CIM
	05	07		COMMAND CIM
	06	07		COMMAND CIM
	07	07		COMMAND CIM
	08	07		COMMAND CIM
	09	07		COMMAND CIM
	10	07		COMMAND CIM
	11	07		COMMAND CIM
	12	07		COMMAND CIM
	13	07		COMMAND CIM
	14	07		COMMAND CIM
	15	07		COMMAND CIM
	16	07		COMMAND CIM
	17	07		COMMAND CIM
	18	07		COMMAND CIM
	19	07		COMMAND CIM
	20	07		COMMAND CIM
	21	07		COMMAND CIM
	22	07		COMMAND CIM
	23	07		COMMAND CIM
	24	07		COMMAND CIM
	25	07		COMMAND CIM
	26	07		COMMAND CIM
	27	07		COMMAND CIM
	28	07		COMMAND CIM
	29	07		COMMAND CIM
	30	07		COMMAND CIM
	31	07		COMMAND CIM
	32	07		COMMAND CIM

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ROOM NO:  
CONSOLE NO:  
CONSOLE TITLE:

MODULE LOCATION:  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT <u>PBI</u>	R/O NUM	LAMP NUM	LABEL	MEASUREMENT
08				
	01	08		CMD FIELD SELECT
	02	08		COMMAND CIM
	03	08		COMMAND CIM
	04	08		COMMAND CIM
	05	08		COMMAND CIM
	06	08		COMMAND CIM
	07	08		COMMAND CIM
	08	08		COMMAND CIM
	09	08		COMMAND CIM
	10	08		COMMAND CIM
	11	08		COMMAND CIM
	12	08		COMMAND CIM
	13	08		COMMAND CIM
	14	08		COMMAND CIM
	15	08		COMMAND CIM
	16	08		COMMAND CIM
	17	08		COMMAND CIM
	18	08		COMMAND CIM
	19	08		COMMAND CIM
	20	08		COMMAND CIM
	21	08		COMMAND CIM
	22	08		COMMAND CIM
	23	08		COMMAND CIM
	24	08		COMMAND CIM
	25	08		COMMAND CIM
	26	08		COMMAND CIM
	27	08		COMMAND CIM
	28	08		COMMAND CIM
	29	08		COMMAND CIM
	30	08		COMMAND CIM
	31	08		COMMAND CIM
	32	08		COMMAND CIM
09				
	01	09		CMD FIELD SELECT
	02	09		COMMAND CIM
	03	09		COMMAND CIM
	04	09		COMMAND CIM
	05	09		COMMAND CIM
	06	09		COMMAND CIM
	07	09		COMMAND CIM
	08	09		COMMAND CIM
	09	09		COMMAND CIM
	10	09		COMMAND CIM
	11	09		COMMAND CIM
	12	09		COMMAND CIM

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MCC CONFIGURATION CONTROL

MULTIPLE COMMAND MODULE INPUT FORM  
DATA PACK ACRONYM *CHL/PAYLOADS*

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ROOM NO:  
CONSOLE NO:  
CONSOLE TITLE:

MODULE LOCATION:  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT
	13	09		COMMAND CIM
	14	09		COMMAND CIM
	15	09		COMMAND CIM
	16	09		COMMAND CIM
	17	09		COMMAND CIM
	18	09		COMMAND CIM
	19	09		COMMAND CIM
	20	09		COMMAND CIM
	21	09		COMMAND CIM
	22	09		COMMAND CIM
	23	09		COMMAND CIM
	24	09		COMMAND CIM
	25	09		COMMAND CIM
	26	09		COMMAND CIM
	27	09		COMMAND CIM
	28	09		COMMAND CIM
	29	09		COMMAND CIM
	30	09		COMMAND CIM
	31	09		COMMAND CIM
	32	09		COMMAND CIM
10				CMD FIELD SELECT
	01	10		COMMAND CIM
	02	10		COMMAND CIM
	03	10		COMMAND CIM
	04	10		COMMAND CIM
	05	10		COMMAND CIM
	06	10		COMMAND CIM
	07	10		COMMAND CIM
	08	10		COMMAND CIM
	09	10		COMMAND CIM
	10	10		COMMAND CIM
	11	10		COMMAND CIM
	12	10		COMMAND CIM
	13	10		COMMAND CIM
	14	10		COMMAND CIM
	15	10		COMMAND CIM
	16	10		COMMAND CIM
	17	10		COMMAND CIM
	18	10		COMMAND CIM
	19	10		COMMAND CIM
	20	10		COMMAND CIM
	21	10		COMMAND CIM
	22	10		COMMAND CIM
	23	10		COMMAND CIM
	24	10		COMMAND CIM
	25	10		COMMAND CIM

ROOM NO:  
CONSOLE NO:  
CONSOLE TITLE:

MODULE LOCATION:  
MODULE NAME: MULTIPLE COMMAND MODULE (MCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT
	26	10		COMMAND CIM
	27	10		COMMAND CIM
	28	10		COMMAND CIM
	29	10		COMMAND CIM
	30	10		COMMAND CIM
	31	10		COMMAND CIM
	32	10		COMMAND CIM
11				CMD FIELD SELECT
	01	11		COMMAND CIM
	02	11		COMMAND CIM
	03	11		COMMAND CIM
	04	11		COMMAND CIM
	05	11		COMMAND CIM
	06	11		COMMAND CIM
	07	11		COMMAND CIM
	08	11		COMMAND CIM
	09	11		COMMAND CIM
	10	11		COMMAND CIM
	11	11		COMMAND CIM
	12	11		COMMAND CIM
	13	11		COMMAND CIM
	14	11		COMMAND CIM
	15	11		COMMAND CIM
	16	11		COMMAND CIM
	17	11		COMMAND CIM
	18	11		COMMAND CIM
	19	11		COMMAND CIM
	20	11		COMMAND CIM
	21	11		COMMAND CIM
	22	11		COMMAND CIM
	23	11		COMMAND CIM
	24	11		COMMAND CIM
	25	11		COMMAND CIM
	26	11		COMMAND CIM
	27	11		COMMAND CIM
	28	11		COMMAND CIM
	29	11		COMMAND CIM
	30	11		COMMAND CIM
	31	11		COMMAND CIM
	32	11		COMMAND CIM
12				CMD FIELD SELECT
	01	12		COMMAND CIM
	02	12		COMMAND CIM
	03	12		COMMAND CIM
	04	12		COMMAND CIM
	05	12		COMMAND CIM

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MCC CONFIGURATION CONTROL

MULTIPLE COMMAND MODULE INPUT FORM  
DATA PACK ACRONYM CH6/PAYLOADS

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ROOM NO:  
CONSOLE NO:  
CONSOLE TITLE:

MODULE LOCATION:  
MODULE NAME: MULTIPLE COMMAND MODULE (NCM) CONT'D--  
MODULE TYPE: DRK4

FIELD SELECT PBI	R/O NUM	LAMP NUM	LABEL	MEASUREMENT
	06	12		COMMAND CIM
	07	12		COMMAND CIM
	08	12		COMMAND CIM
	09	12		COMMAND CIM
	10	12		COMMAND CIM
	11	12		COMMAND CIM
	12	12		COMMAND CIM
	13	12		COMMAND CIM
	14	12		COMMAND CIM
	15	12		COMMAND CIM
	16	12		COMMAND CIM
	17	12		COMMAND CIM
	18	12		COMMAND CIM
	19	12		COMMAND CIM
	20	12		COMMAND CIM
	21	12		COMMAND CIM
	22	12		COMMAND CIM
	23	12		COMMAND CIM
	24	12		COMMAND CIM
	25	12		COMMAND CIM
	26	12		COMMAND CIM
	27	12		COMMAND CIM
	28	12		COMMAND CIM
	29	12		COMMAND CIM
	30	12		COMMAND CIM
	31	12		COMMAND CIM
	32	12		COMMAND CIM

## SECTION 9 VOICE COMMUNICATIONS

Voice communication is provided through numerous communication loops terminated on various keyset stations. These loops permit communications within the MCC, between the MCC and other facilities at JSC, and with other NASA and non-NASA remote facilities. This section defines the configuration of the voice communications keysets.

Listed below are those loops specifically defined by payload operations.

- o EXP-1, EXP-2, TD-1, TD-2, TD-4 - Used prelaunch for coordination of payload installation, service operations, and integrated tests between JSC POCC and KSC facilities
- o PAYLOAD CONFERENCE - Common loop for coordination within the JSC POCC and associated MPSR
- o PAYLOAD DATA - Used to resolve data discrepancies and to establish data requirements
- o PAYLOADS - Prime Mission Operations Control Room (MOCR) loop for the Payload Officer to interface with other MOCR operators and supportive personnel in POCC's and MPSR's
- o POCC DIRECTOR - Prime loop for interfacing the POCC director by other POCC and flight control team personnel
- o PAYLOAD MPSR/PAYLOAD TD - Used to interface with payload support systems personnel within the payload MPSR and used prelaunch, to interface with the KSC Payload Test Director
- o USER SUPPORT ROOM 1, 2, 3, and 4 - Coordination loop used by personnel concerned with the designated payload

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# USER SUPPORT ROOM

HOR. ONE  
V. CIRCLE  
TYPE  
KEYSET  
CSL  
RM  
DATE  
CR

1 PABX (m)	2 PABX (T)	3 PD (m)	4 PD (T)	5 AIG 1 (m)	6 AIG 2 (m)
7 PAYLOADS (m)	8 PAYLOADS (T)	9 FD (m)	10 AFD CONF (m)	11 INCO (m)	12 AIG UHF (m)
13 P/L CONF (m)	14 P/L CONF (T)	15 MSN PLNG CONF (m)	16 CREW OPS (m)	17 COMM OIS 155 (m)	18 WX NET (m)
19 P/L DATA (m)	20 P/L DATA (T)	21 DFE (m)	22 DATA (m)	23 OPS PLNR (m)	24 OPS COORD (m)
25 P/L SYS (m)	26 P/L SYS (T)	27 P/L MPSR P/L TD OIS 133 (m)	28 P/L MPSR P/L TD (T)	29 SSR 1 CONF OIS 183 (m)	30 SSR 2 CONF OIS 161 (m)
31 EXP-1 OIS 164 (T)	32 EXP-2 OIS (T)	33 TD-1 OIS 131 (T)	34 TD-4 OIS 231 (T)	35 PLBK-1 STS TD OIS 131 (m)	36 PLBK-2 ET/SRB TD OIS 135 (m)
37 USR 1 (m)	38 USR 1 (T)	39 USR 2 (m)	40 USR 2 (T)	41 PLBK-3 OTD OIS 232 (m)	42 PLBK-4 ICOM A+B OIS 214, 215 (m)
43 USR 3 (m)	44 USR 3 (T)	45 USR 4 (m)	46 USR 4 (T)	47 COMM CNTL (T)	48 DISPLAY (T)

CCS	CONS	MD	POI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2260	250	27						PAYLOAD 1 (LEFT)	213	C	V48MFD
01							5624				
02							5620				
03							L092				
04							L092				
05							A169				
06							L206				
07							L097				
08							L097				
09							L290				
10							L295				
11							L222				
12							L271				
13							L091				
14							L091				
15							L066				
16							L074				
17							L033				
18							L035				
19							L089				
20							L089				
21							L106				
22							L015				
23							L072				
24							L081				
25							L088				
26							L088				
27							L050				
28							L050				
29							L082				
30							L083				
31							L084				
32							L005				
33							L086				
34							L088				
35							P048				
36							L249				
37							L056				
38							L056				
39							L057				
40							L057				
41							L250				
42							L251				
43							L058				
44							L058				
45							L059				
46							L059				
47							L032				
48							L057				



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FLT 001 VEH 102

TR155-23-089  
CCS POSITION DETAIL  
USER ORG: CHG/PAYLOADS

CCS POSN	CONS NO	P81	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2261	250	28					PAYLOAD 1 (RIGHT)	213	C	V48-FD
01			M	T	PABX	6624				
02			M	T	PABX	5620				
03			Y	M	4 • PD	L092				
04			M	T	4 • PD	L092				
05			Y	M	4 • A/G 1	A169				
06			Y	M	4 • A/G 2	L206				
07			Y	M	4 • PAYLOADS	L097				
08			M	T	4 • PAYLOADS	L097				
09			Y	M	4 • PD	L290				
10			Y	M	4 • AFD CONF	L295				
11			Y	M	4 • INCO	L271				
12			Y	M	4 • A/G UNF	L091				
13			Y	M	4 • PAYLOAD • CONF	L091				
14			M	T	4 • PAYLOAD • CONF	L066				
15			Y	M	4 • FAO	L074				
16			Y	M	4 • CREH OPS	L033				
17			Y	M	4 • COMM • OIS 155	L035				
18			Y	M	4 • WEATHER • NET	L089				
19			Y	M	4 • PAYLOAD • DATA	L105				
20			M	T	4 • PAYLOAD • DATA	L015				
21			Y	M	4 • DFE	L072				
22			Y	M	4 • DATA • INTE- • GRATOR	L081				
23			Y	M	4 • OPS PLNR	L088				
24			Y	M	4 • OPS COORD	L088				
25			Y	M	4 • PAYLOAD • SYSTEMS	L050				
26			M	T	4 • PAYLOAD • SYSTEMS	L050				
27			Y	M	4 • P/L MPSR • P/L TO • OIS 133	L082				
28			M	T	4 • P/L MPSR • P/L TO • OIS 133	L083				
29			Y	M	4 • SSR 1 • CONF/ T/S • OIS 183	L004				
30			Y	M	4 • SSR 2 • CONF/PE-1 • OIS 161	L085				
31			M	T	4 • EXP 1 • OIS 164	L088				
32			M	T	4 • EXP 2 • OIS 174	L048				
33			M	T	4 • TO 1 • OIS 131	L249				
34			M	T	4 • TO 4 • OIS 231	L056				
35			Y	M	4 • PLBK 1 • STS TO • OIS 131	L056				
36			Y	M	4 • PLBK 2 • ET/5R8 TO • OIS 135	L057				
37			Y	M	4 • USER • SUPPORT • ROOM 1	L250				
38			M	T	4 • USER • SUPPORT • ROOM 1	L251				
39			Y	M	4 • USER • SUPPORT • ROOM 2	L058				
40			M	T	4 • USER • SUPPORT • ROOM 2	L059				
41			Y	M	4 • PLBK 3 • OIS • OIS 232	L032				
42			Y	M	4 • PLBK 4 • ICOM A&D • 214 & 215	L057				
43			Y	M	4 • USER • SUPPORT • ROOM 3					
44			M	T	4 • USER • SUPPORT • ROOM 3					
45			Y	M	4 • USER • SUPPORT • ROOM 4					
46			Y	M	4 • USER • SUPPORT • ROOM 4					
47			M	T	4 • COMM • CONTROL					
48			M	T	4 • DISPLAY					

CCS POSN	CONS	NO	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2282	251	27						PAYLOAD 2 (LEFT)	213	C	V48MFD
		01	M	T		PABX	5621				
		02	M	T		PABX	5620				
		03	M	T		4 • PD	L092				
		04	M	T		4 • PD	L092				
		05	M	T		4 • A/G 1	A169				
		06	M	T		4 • A/G 2	1286				
		07	M	T		4 • PAYLOADS	L097				
		08	M	T		4 • PAYLOADS	L097				
		09	M	T		4 • FD	1290				
		10	M	T		4 • AFD CONF	1295				
		11	M	T		4 • INCO	1022				
		12	M	T		4 • A/G UHF	1271				
		13	M	T		4 • PAYLOAD • CONF	L091				
		14	M	T		4 • PAYLOAD • CONF	L091				
		15	M	T		4 • FAO	L066				
		16	M	T		4 • CREW OPS	L074				
		17	M	T		4 • COMM • OIS 155	1033				
		18	M	T		4 • WEATHER • NET	L035				
		19	M	T		4 • PAYLOAD • DATA	L089				
		20	M	T		4 • PAYLOAD • DATA	L089				
		21	M	T		4 • DFE	L106				
		22	M	T		4 • DATA • INTE- • GRATOR	L015				
		23	M	T		4 • OPS PLNR	L072				
		24	M	T		4 • OPS COORD	L081				
		25	M	T		4 • PAYLOAD • SYSTEMS	L088				
		26	M	T		4 • PAYLOAD • SYSTEMS	L008				
		27	M	T		4 • P/L MPSPR • P/L TO • OIS 133	1050				
		28	M	T		4 • P/L MPSPR • P/L TO • OIS 133	1050				
		29	M	T		4 • SSR 1 • CONF/ T/S • OIS 183	1082				
		30	M	T		4 • SSR 2 • CONF/PE-1 • OIS 161	1083				
		31	M	T		4 • EXP 1 • OIS 164	1084				
		32	M	T		4 • EXP 2 • OIS 174	1085				
		33	M	T		4 • TO 1 • OIS 131	1086				
		34	M	T		4 • TO 4 • OIS 231	1088				
		35	M	T		4 • PLBK 1 • STS TO • OIS 131	P048				
		36	M	T		4 • PLBK 2 • E1/SRB TO • OIS 135	1249				
		37	M	T		4 • USER • SUPPORT • ROOM 1	1056				
		38	M	T		4 • USER • SUPPORT • ROOM 1	1056				
		39	M	T		4 • USER • SUPPORT • ROOM 2	1057				
		40	M	T		4 • USER • SUPPORT • ROOM 2	1057				
		41	M	T		4 • PLBK 3 • OIS 232	1250				
		42	M	T		4 • PLBK 4 • ICOM A&B • 214 & 215	1251				
		43	M	T		4 • USER • SUPPORT • ROOM 3	1058				
		44	M	T		4 • USER • SUPPORT • ROOM 3	1058				
		45	M	T		4 • USER • SUPPORT • ROOM 4	1059				
		46	M	T		4 • USER • SUPPORT • ROOM 4	1059				
		47	M	T		4 • COMM • CONTROL	L032				
		48	M	T		4 • DISPLAY	L057				

CCS POSN	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESI0	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2263	251	28						PAYLOAD 2 (RIGHT)	213	C	V48HFD
01						PABX	5621				
02						PABX	5620				
03						4 • PD	L092				
04						4 • PD	L092				
05						4 • A/O 1	A169				
06						4 • A/O 2	1298				
07						4 • PAYLOADS	L097				
08						4 • PAYLOADS	L097				
09						4 • PD	1290				
10						4 • AFD CONF	1295				
11						4 • INCO	1022				
12						4 • A/O UHF	1271				
13						4 • PAYLOAD • CONF	L091				
14						4 • PAYLOAD • CONF	L091				
15						4 • FAO	L066				
16						4 • CREM OPS	L074				
17						4 • COMM • OIS 155	1033				
18						4 • WEATHER • NET	L035				
19						4 • PAYLOAD • DATA	L089				
20						4 • PAYLOAD • DATA	L009				
21						4 • DFE	L106				
22						4 • DATA • INTE- • GRATOR	1015				
23						4 • OPS PLNR	L072				
24						4 • OPS COORD	L081				
25						4 • PAYLOAD • SYSTEMS	L088				
26						4 • PAYLOAD • SYSTEMS	L008				
27						4 • P/L HPSR • P/L TD • OIS 133	1050				
28						4 • P/L HPSR • P/L TD • OIS 133	1050				
29						4 • SSR 1 • CONF/ T/S • OIS 183	1002				
30						4 • SSR 2 • CONF/PE-1 • OIS 161	1083				
31						4 • EXP 1 • OIS 164	1084				
32						4 • EXP 2 • OIS 174	1005				
33						4 • TD 1 • OIS 131	1086				
34						4 • TD 4 • OIS 231	1088				
35						4 • PLOK 1 • STS TD • OIS 131	P048				
36						4 • PLOK 2 • ET/SRB TD • OIS 135	1249				
37						4 • USER • SUPPORT • ROOM 1	1056				
38						4 • USER • SUPPORT • ROOM 1	1056				
39						4 • USER • SUPPORT • ROOM 2	1057				
40						4 • USER • SUPPORT • ROOM 2	1057				
41						4 • PLOK 3 • OTD • OIS 232	1250				
42						4 • PLOK 4 • ICOM AEB • 214 & 215	1251				
43						4 • USER • SUPPORT • ROOM 3	1058				
44						4 • USER • SUPPORT • ROOM 3	1058				
45						4 • USER • SUPPORT • ROOM 4	1059				
46						4 • USER • SUPPORT • ROOM 4	1059				
47						4 • CCM • CONTROL	L032				
48						4 • DISPLAY	L057				

CCS POSN	CONS	MD	POI	CLR	T/H	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2268	254	27									
01				M	T	PABX	4631	PAYLOAD 5 (LEFT)	213	C	V49-FD
02				M	T	PABX	5620	5723		C	
03				Y	M	4 • PD	L092			C	
04				M	T	4 • PD	L092			C	
05				Y	M	4 • A/O 1	A169			C	
06				Y	M	4 • A/O 2	L206			C	
07				Y	M	4 • PAYLOADS	L097			C	
08				M	T	4 • PD	L097			C	
09				Y	M	4 • AFD CONF	L290			C	
10				Y	M	4 • INCO	L295			C	
11				Y	M	4 • A/O UHF	L022			C	
12				Y	M	4 • PAYLOAD • CONF	L271			C	
13				Y	M	4 • PAYLOAD • CONF	L091			C	
14				M	T	4 • FAO	L091			C	
15				Y	M	4 • CREM OPS	L066			C	
16				Y	M	4 • COMM • OIS 155	L074			C	
17				Y	M	4 • WEATHER • NET	L033			C	
18				Y	M	4 • PAYLOAD • DATA	L035			C	
19				Y	M	4 • PAYLOAD • DATA	L089			C	
20				M	T	4 • DFE	L009			C	
21				Y	M	4 • DATA • INTE- • GRATOR	L106			C	
22				Y	M	4 • OPS PLNR	L015			C	
23				Y	M	4 • OPS COORD	L072			C	
24				Y	M	4 • PAYLOAD • SYSTEMS	L081			C	
25				Y	M	4 • PAYLOAD • SYSTEMS	L088			C	
26				M	T	4 • P/L MPSR • P/L TD • OIS 133	L050			C	
27				Y	M	4 • P/L MPSR • P/L TD • OIS 133	L050			C	
28				M	T	4 • SSR 1 • CONF / T/S • OIS 183	L082			C	
29				Y	M	4 • SSR 2 • CONF/PE-1 • OIS 161	L083			C	
30				Y	M	4 • EXP 1 • OIS 164	L084			C	
31				M	T	4 • EXP 2 • OIS 174	L085			C	
32				M	T	4 • TD 1 • OIS 131	L086			C	
33				M	T	4 • TD 4 • OIS 231	L088			C	
34				M	T	4 • PLBK 1 • SIS TD • OIS 131	L008			C	
35				Y	M	4 • PLBK 2 • ET/SRD TD • OIS 135	P048			C	
36				Y	M	4 • USER • SUPPORT • ROOM 1	L249			C	
37				Y	M	4 • USER • SUPPORT • ROOM 1	L056			C	
38				M	T	4 • USER • SUPPORT • ROOM 2	L056			C	
39				Y	M	4 • USER • SUPPORT • ROOM 2	L057			C	
40				M	T	4 • USER • SUPPORT • ROOM 2	L057			C	
41				Y	M	4 • PLBK 3 • QTD • OIS 232	L250			C	
42				Y	M	4 • PLBK 4 • ICOM A8 • 214 & 215	L251			C	
43				Y	M	4 • USER • SUPPORT • ROOM 3	L058			C	
44				Y	M	4 • USER • SUPPORT • ROOM 3	L058			C	
45				Y	M	4 • USER • SUPPORT • ROOM 4	L059			C	
46				M	T	4 • USER • SUPPORT • ROOM 4	L059			C	
47				M	T	4 • COMM • CONTROL	L032			C	
48				M	T	4 • DISPLAY	L057			C	

CCS	CONS	MO	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2269	254	28						PAYLOAD 5 (RIGHT)	213	C	V48MFD
01			M		T	PABX	5620				
02			M		T	PABX	L092				
03			Y		M	PO	L092				
04			M		T	PO	A169				
05			Y		M	A/G 1	1286				
06			Y		M	A/G 2	L097				
07			Y		M	PAYLOADS	L097				
08			M		T	PAYLOADS	L097				
09			Y		M	FD	L290				
10			Y		M	AFD CONF	L295				
11			Y		M	INCO	1022				
12			Y		M	A/G UHF	1271				
13			Y		M	PAYLOAD • CONF	L091				
14			M		T	PAYLOAD • CONF	L091				
15			Y		M	FAO	L066				
16			Y		M	CREW OPS	L074				
17			Y		M	COMM • OIS 155	1033				
18			Y		M	WEATHER • NET	L035				
19			Y		M	PAYLOAD • DATA	L089				
20			M		T	PAYLOAD • DATA	L009				
21			Y		M	DPE	L106				
22			Y		M	DATA • INTE- • GRATOR	1015				
23			Y		M	OPS PLNR	L072				
24			Y		M	OPS COORD	L081				
25			Y		M	PAYLOAD • SYSTEMS	L088				
26			M		T	PAYLOAD • SYSTEMS	L000				
27			Y		M	P/L MPSP • P/L TD • OIS 133	1050				
28			M		T	P/L MPSP • P/L TD • OIS 133	1050				
29			Y		M	SSR 1 • CONF/ T/S • OIS 183	1082				
30			Y		M	SSR 2 • CONF/PE-1 • OIS 161	1083				
31			M		T	EXP 1 • OIS 164	1004				
32			M		T	EXP 2 • OIS 174	1085				
33			M		T	TD 1 • OIS 131	1086				
34			M		T	TD 4 • OIS 231	1088				
35			Y		M	PLBK 1 • STS TD • OIS 131	P048				
36			Y		M	PLBK 2 • ET/SRB TD • OIS 135	1249				
37			Y		M	USER • SUPPORT • ROOM 1	1056				
38			M		T	USER • SUPPORT • ROOM 1	1056				
39			Y		M	USER • SUPPORT • ROOM 2	1057				
40			M		T	USER • SUPPORT • ROOM 2	1057				
41			Y		M	PLBK 3 • OTD • OIS 232	1250				
42			Y		M	PLBK 4 • ICOM A/B • 214 & 215	1251				
43			Y		M	USER • SUPPORT • ROOM 3	1058				
44			M		T	USER • SUPPORT • ROOM 3	1058				
45			Y		M	USER • SUPPORT • ROOM 4	1059				
46			M		T	USER • SUPPORT • ROOM 4	1059				
47			M		T	COMM • CONTROL	L032				
48			M		T	DISPLAY	L057				

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TR155-25-089  
CCS POSITION DETAIL  
USER ORG: CM6/PAYLOADS

CCS	CONS	NO	PBI	CLR	T/M	LOOP	POSITION TITLE	ROOM	REV	KEYSET
POSN						DESIG		NUM		TYPE
2270	285	27					PAYLOAD 8 (LEFT)	213	C	V48MFD
01			M		T	PABX	5620			
02			M		T	PABX	5620			
03			Y		M	PD	L092			
04			M		T	PD	L092			
05			Y		M	A/G 1	A169			
06			Y		M	A/G 2	1286			
07			Y		M	PAYLOADS	L097			
08			M		T	PAYLOADS	L097			
09			Y		M	FD	1290			
10			Y		M	AFD CONF	1295			
11			Y		M	INCO	1022			
12			Y		M	A/G UHF	1271			
13			Y		M	PAYLOAD • CONF	L091			
14			M		T	PAYLOAD • CONF	L091			
15			Y		M	FAD	L066			
16			Y		M	CREM OPS	L074			
17			Y		M	COMM • OIS 155	L033			
18			Y		M	WEATHER • NET	L035			
19			Y		M	PAYLOAD • DATA	L009			
20			M		T	PAYLOAD • DATA	L085			
21			Y		M	DFE	L106			
22			Y		M	DATA • INTE- • GRATOR	L015			
23			Y		M	OPS PLNR	L072			
24			Y		M	OPS COORD	L081			
25			Y		M	PAYLOAD • SYSTEMS	L088			
26			M		T	PAYLOAD • SYSTEMS	L088			
27			Y		M	P/L HPSR • P/L TD • OIS 133	L050			
28			M		T	P/L HPSR • P/L TD • OIS 133	L050			
29			Y		M	SSR 1 • CONF/ T/S • OIS 183	L002			
30			Y		M	SSR 2 • CONF/PE-1 • OIS 161	L083			
31			M		T	EXP 1 • OIS 164	L004			
32			M		T	EXP 2 • OIS 174	L085			
33			M		T	TD 1 • OIS 131	L086			
34			M		T	TD 4 • OIS 231	L088			
35			Y		M	PLBK 1 • STS TD • OIS 131	P048			
36			Y		M	PLBK 2 • ET/SRB TD • OIS 135	L249			
37			Y		M	USER • SUPPORT • ROOM 1	L056			
38			M		T	USER • SUPPORT • ROOM 1	L056			
39			Y		M	USER • SUPPORT • ROOM 2	L057			
40			M		T	USER • SUPPORT • ROOM 2	L057			
41			Y		M	PLBK 3 • OTD • OIS 232	L057			
42			Y		M	PLBK 4 • ICOM A&B • 214 & 215	L251			
43			Y		M	USER • SUPPORT • ROOM 3	L058			
44			Y		M	USER • SUPPORT • ROOM 3	L058			
45			Y		M	USER • SUPPORT • ROOM 4	L059			
46			M		T	USER • SUPPORT • ROOM 4	L059			
47			M		T	COMM • CONTROL	L032			
48			M		T	DISPLAY	L057			

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CCS POSITION DETAIL  
USER OR01 CM6/RAYLOADS

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CCS POSN	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2271	255	28						PAYLOAD 6 (RIGHT)	213	C	V48-FD
01						PABX	5624				
02						PABX	5620				
03						Y • PD	L092				
04						Y • PD	L092				
05						Y • A/O 1	A169				
06						Y • A/O 2	1286				
07						Y • PAYLOADS	L097				
08						Y • PAYLOADS	L097				
09						Y • FD	1290				
10						Y • AFD CONF	1295				
11						Y • INCO	1022				
12						Y • A/O UHF	1271				
13						Y • PAYLOAD • CONF	L091				
14						Y • PAYLOAD • CONF	L091				
15						Y • FAU	L066				
16						Y • CREW OPS	L074				
17						Y • COMM • OIS 153	1033				
18						Y • WEATHER • NET	L035				
19						Y • PAYLOAD • DATA	L089				
20						Y • PAYLOAD • DATA	L089				
21						Y • DFE	L106				
22						Y • DATA • INTE- • GRATOR	1015				
23						Y • OPS PLNR	L072				
24						Y • OPS COORD	L081				
25						Y • PAYLOAD • SYSTEMS	L088				
26						Y • PAYLOAD • SYSTEMS	L088				
27						Y • P/L MPSR • P/L TD • OIS 133	1050				
28						Y • P/L MPSR • P/L TD • OIS 133	1050				
29						Y • SSR 1 • CONF/ Y/S • OIS 183	1002				
30						Y • SSR 2 • CONF/PE-1 • OIS 161	1083				
31						Y • EXP 1 • OIS 164	1084				
32						Y • EXP 2 • OIS 174	1085				
33						Y • TD 1 • OIS 131	1086				
34						Y • TD 4 • OIS 231	1008				
35						Y • PLBK 1 • STS TD • OIS 131	P048				
36						Y • PLBK 2 • ET/SRB TD • OIS 135	1249				
37						Y • USER • SUPPORT • ROOM 1	1056				
38						Y • USER • SUPPORT • ROOM 1	1056				
39						Y • USER • SUPPORT • ROOM 2	1057				
40						Y • USER • SUPPORT • ROOM 2	1057				
41						Y • PLBK 3 • OTD • OIS 232	1250				
42						Y • PLBK 4 • ICOM A6B • 214 & 215	1251				
43						Y • USER • SUPPORT • ROOM 3	1058				
44						Y • USER • SUPPORT • ROOM 3	1058				
45						Y • USER • SUPPORT • ROOM 4	1059				
46						Y • USER • SUPPORT • ROOM 4	1059				
47						Y • COMM • CONTROL	L032				
48						Y • DISPLAY	L057				

(PROPOSED)

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# PAYLOAD COMMAND (252-L,R)

HOR. V. TYPE KEYSET CSL RM DATE CR

ONE CIRCLE

1 PABX (m)	2 PABX (m)	3 SPAN (T)	4 A/G UHF (m)	5 A/G 1 (m)	6 A/G 1 (H)
7 FD (m)	8 AFD CONF (m)	9 AFD CONF (T)	10 COMM-1 (T)	11 A/G 2 (m)	12 A/G 2 (H)
13 PAYLOADS (m)	14 PAYLOADS (T)	15 P/L CONF (m)	16 P/L CONF (T)	17 MOCR CMD (T)	18 LOAD CNTL (T)
19 P/L SYS (m)	20 P/L SYS (T)	21 P/L DATA (m)	22 P/L DATA (T)	23 RTC (m)	24 RTC (T)
25 PD (m)	26 PD (T)	27 SSR DYN 2 (m)	28 SSR DYN 2 (T)	29 INCO (m)	30 INCO (T)
31 USR 1 USR 2 (T)	32 USR 3 USR 4 (T)	33 MOCR SYS (T)	34 MOCR DPS/GNC (T)	35 SDP CMD (T)	36 DFE (T)
37 P/L MPSR (T)	38 PLBK 1 (m)	39 PLBK 2 (m)	40 EXP-1 (T)	41 SITE COORD (m)	42 DFE PLBK (T)
43 SSR-1 CONF (T)	44 SSR-2 CONF (T)	45 SDP TLM (T)	46 MSN PLNG CONF (T)	47 GC CALL COMM CNTL (T)	48 DISPLAY (T)

HSC Form 2171 (Sep 66)



S M O F T  
FLT 001 VEH 102

TR155-25-089  
CCS POSITION DETAIL  
USER ORG: CMG/PAYLOADS

CCS POSN	CONS	NO	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
225N	252	27						PAYLOAD 3 (LEFT)	213	C	V48-FD
01			M		T	PABX	5621				
02			M		T	PABX	5622				
03			M		M	4 • PAYLOADS	L097				
04			M		T	4 • PAYLOADS	L097				
05			M		M	4 • A/G 1	A169				
06			M		M	4 • A/G 2	1206				
07			M		M	4 • FD	1290				
08			M		T	4 • FD	1290				
09			M		T	4 • AFD CONF	1290				
10			M		M	4 • INCO	1022				
11			M		T	4 • INCO	1022				
12			M		M	4 • A/G UHF	1271				
13			M		M	4 • RTC	L006				
14			M		T	4 • RTC	L006				
15			M		M	4 • LOAD • CONTROL	L116				
16			M		M	4 • LOAD • CONTROL	L116				
17			M		M	4 • MOCR • CHD	L014				
18			M		T	4 • MOCR • CHD	L014				
19			M		M	4 • PAYLOAD • SYSTEMS	L088				
20			M		T	4 • PAYLOAD • SYSTEMS	L088				
21			M		T	4 • MOCR SYS	L079				
22			M		T	4 • SDP CHD	L069				
23			M		T	4 • OPS PLNR	L072				
24			M		T	4 • SSR 1 • CONF/ T/S • OIS 183	1082				
25			M		M	4 • PAYLOAD • CONF	L091				
26			M		T	4 • PAYLOAD • CONF	L091				
27			M		M	4 • PAYLOAD • DATA	L089				
28			M		T	4 • PAYLOAD • DATA	L089				
29			M		T	4 • DATA	L070				
30			M		T	4 • SSR 2 • CONF/PE-1 • OIS 181	1003				
31			M		T	4 • PD	L092				
32			M		T	4 • PD	L092				
33			M		M	4 • PLBK 1 • STS TD • OIS 131	P048				
34			M		M	4 • PLBK 2 • ET/CRB TD • OIS 135	1249				
35			M		M	4 • PLBK 3 • OTD • OIS 232	1250				
36			M		M	4 • PLBK 4 • ICOM ABB • 214 & 215	1251				
37			M		M	4 • P/L MPSR • P/L TD • OIS 133	1050				
38			M		T	4 • P/L MPSR • P/L TD • OIS 133	1050				
39			M		T	4 • EXP 1 • OIS 164	1084				
40			M		T	4 • EXP 2 • OIS 174	1085				
41			M		T	4 • TD 1 • OIS 131	1086				
42			M		T	4 • TD 4 • OIS 231	1088				
43			M		T	4 • USER • SUPPORT • ROOM 1	1056				
44			M		T	4 • USER • SUPPORT • ROOM 2	1057				
45			M		T	4 • USER • SUPPORT • ROOM 3	1058				
46			M		T	4 • USER • SUPPORT • ROOM 4	1059				
47			M		T	4 • GC CALL	1129				
48			M		T	4 • DISPLAY	L057				

CCS	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2265	252	28						PAYLOAD 3 (RIGHT)	213	C	V48-FD
01			H		T	PABX	5621				
02			H		T	PABX	5623				
03			Y		M	• PAYLOADS	L097				
04			H		T	• PAYLOADS	L097				
05			Y		M	• A/O 1	A169				
06			Y		M	• A/G 2	1206				
07			Y		M	• FD	1290				
08			H		T	• FD	1290				
09			M		T	• AFD CONF	1295				
10			Y		M	• INCO	1022				
11			H		T	• INCO	1022				
12			Y		M	• A/G UHF	1271				
13			Y		M	• RTC	L006				
14			H		T	• RTC	L006				
15			Y		M	• LOAD • CONTROL	L116				
16			H		T	• LOAD • CONTROL	L116				
17			Y		M	• MOCR • CHD	L014				
18			H		T	• MOCR • CHD	L014				
19			Y		M	• PAYLOAD • SYSTEMS	L008				
20			H		T	• PAYLOAD • SYSTEMS	L008				
21			H		T	• MOCR SYS	L079				
22			H		T	• SOP CHD	L069				
23			H		T	• OPS PLNR	L072				
24			H		T	• SSR 1 • CONF/ T/S • OIS 183	1082				
25			Y		M	• PAYLOAD • CONF	L091				
26			H		T	• PAYLOAD • CONF	L091				
27			Y		M	• PAYLOAD • DATA	L089				
28			H		T	• PAYLOAD • DATA	L089				
29			H		T	• DATA	L070				
30			H		T	• SSR 2 • CONF/PE-1 • OIS 161	1083				
31			Y		M	• PD	L092				
32			H		T	• PD	L092				
33			Y		M	• PLBK 1 • STS TO • OIS 131	P048				
34			Y		M	• PLBK 2 • ET/SRB TO • OIS 135	1249				
35			Y		M	• PLBK 3 • OTD • OIS 232	1250				
36			Y		M	• PLBK 4 • ICOM A&B • 214 & 215	1251				
37			Y		M	• P/L MPSR • P/L TO • OIS 133	1050				
38			H		T	• P/L MPSR • P/L TO • OIS 133	1050				
39			H		T	• EXP 1 • OIS 164	1084				
40			H		T	• EXP 2 • OIS 174	1085				
41			H		T	• TD 1 • OIS 131	1086				
42			H		T	• TD 4 • OIS 231	1086				
43			H		T	• USER • SUPPORT • ROOM 1	1056				
44			H		T	• USER • SUPPORT • ROOM 2	1057				
45			H		T	• USER • SUPPORT • ROOM 3	1058				
46			H		T	• USER • SUPPORT • ROOM 4	1059				
47			H		T	• COMM • CONTROL	L032				
48			H		T	• DISPLAY	L057				

(PROPOSED)

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## MISSION SCIENTIST (253-L)

HOR.  
ONEV.  
CIRCLE

TYPE

KEYSET

CSL

RM

DATE

CR

1 PABX (M)	2 PABX (T)	3 PAO REL (M)	4 AIG 1 (M)	5 AIG 2 (M)	6 AIG 2 (H)
7 PD (M)	8 PD (T)	9 PAYLOADS (M)	10 PAYLOADS (T)	11 INCO (M)	12 AIG UHF (M)
13 FD (M)	14 AFD CONF (M)	15 PIL SYS (M)	16 PIL SYS (T)	17 MSN PLNG CONF (M)	18 MSN PLNG CONF (T)
19 SPAN (M)	20 SPAN (T)	21 PIL DATA (M)	22 PIL DATA (T)	23 PIL MPSR (M)	24 PIL MPSR (T)
25 PIL CONF (M)	26 PIL CONF (T)	27 OPS PLNR (T)	28 OPS COORD (M)	29 CREW OPS (M)	30 CREW OPS (T)
31 USR 1 (M)	32 USR 1 (T)	33 PLBK 1 (M)	34 PLBK 2 (M)	35 PLBK 3 (M)	36 PLBK 4 (M)
37 USR 2 (M)	38 USR 2 (T)	39 EXP-1 (T)	40 EXP-2 (T)	41 TD-1 (T)	42 TD-4 (T)
43 USR 3 (M)	44 USR 3 (T)	45 USR 4 (M)	46 USR 4 (T)	47 COMM CNTL (T)	48 DISPLAY (T)

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S M O F T  
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TR155-25-089  
CCS POSITION DETAIL  
USER ORG1 CHG/PAYLOADS

CCS POSN	CONS	NO	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2266	253	27						PAYLOAD 4 (LEFT)	213	C	V48HFO
01			H		T	PABX	5624				
02			M		T	PABX	5623				
03			Y		M	A/G 1	A169				
04			M		T	A/G 1	1270				
05			Y		M	A/G 2	1206				
06			M		T	A/G 2	1206				
07			Y		M	PD	L092				
08			M		T	PD	L092				
09			Y		M	PAYLOADS	L097				
10			M		T	PAYLOADS	L097				
11			M		T	INCO	L022				
12			M		T	A/G UHF	1271				
13			Y		M	FD	1290				
14			M		T	FD	1290				
15			Y		M	A/G CONF	1295				
16			M		T	A/G CONF	1295				
17			Y		M	FAO	L066				
18			M		T	FAO	L066				
19			Y		M	SPAN	1244				
20			M		T	SPAN	1244				
21			Y		M	SSPO	1110				
22			M		T	SSPO	1110				
23			Y		M	MOCR SYS	L079				
24			M		T	MOCR • CHO	L014				
25			Y		M	PAYLOAD • CONF	L091				
26			M		T	PAYLOAD • CONF	L091				
27			Y		M	OPS PLNR	L072				
28			M		T	OPS COORD	L081				
29			Y		M	CREW • PROCEED	L082				
30			M		T	CREW OPS	L074				
31			Y		M	PAYLOAD • DATA	L089				
32			M		T	PAYLOAD • SYSTEMS	L080				
33			Y		M	EXP 1 • OIS 164	L084				
34			M		T	EXP 2 • OIS 174	L085				
35			Y		M	TD 1 • OIS 131	L086				
36			M		T	TD 4 • OIS 231	L008				
37			Y		M	P/L MPSR • P/L TD • OIS 133	:050				
38			M		T	P/L MPSR • P/L TD • OIS 133	L050				
39			Y		M	PLDK 1 • STS TD • OIS 131	P048				
40			M		T	PLDK 2 • ET/SRB TD • OIS 135	1249				
41			Y		M	PLBK 3 • OTD • OIS 232	1230				
42			M		T	PLBK 4 • ICOM AEB • 214 & 215	1251				
43			Y		M	USER • SUPPORT • ROOM 1	1056				
44			M		T	USER • SUPPORT • ROOM 2	1057				
45			Y		M	USER • SUPPORT • ROOM 3	1058				
46			M		T	USER • SUPPORT • ROOM 4	1059				
47			Y		M	GC CALL	1129				
48			M		T	DISPLAY	L057				

(PROPOSED)

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## POCC DIRECTOR (253-R)

HOR. ONE  
V. CIRCLE  
TYPE  
KEYSET  
CSL  
RM  
DATE  
CR

1 PABX (M)	2 PABX (T)	3 AIG 1 (M)	4 AIG 2 (H)	5 AIG 2 (M)	6 AIG 2 (T)
7 PD (M)	8 PD (T)	9 PAYLOADS (M)	10 PAYLOADS (T)	11 INCO (M)	12 AIG UHF (M)
13 FD (M)	14 FD (T)	15 AFD CONF (M)	16 AFD CONF (T)	17 MSN PLNG CONF (M)	18 MSN PLNG CONF (T)
19 SPAN (M)	20 SPAN (T)	21 SSPD (M)	22 SSPD (T)	23 MOCK SYS (M)	24 MOCK CMD (M)
25 P/L CONF (M)	26 P/L CONF (T)	27 OPS PLNR (T)	28 OPS COORD (T)	29 CREW PROCD (T)	30 CREW OPS (T)
31 P/L DATA (M)	32 P/L DATA (T)	33 P/L SYS (M)	34 P/L SYS (T)	35 PLBK 1 (M)	36 PLBK 2 (M)
37 P/L MPSR (M)	38 P/L MPSR (T)	39 EXP-1 (T)	40 EXP-2 (T)	41 TD-1 (T)	42 TD-4 (T)
43 USR 1 (T)	44 USR 2 (T)	45 USR 3 (T)	46 USR 4 (T)	47 GC CALL (T)	48 DISPLAY (T)

CCS	CONS	MD	P81	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2267	253	28							213	C	V48MFO
01						PABX	3621	PAYLOAD 4 (RIGHT)			
02						PABX	5620				
03						4 • PAO • RELEASE	5622				
04						(BLANK)					
05						4 • A/O 1					
06						4 • A/O 2					
07						4 • PD					
08						4 • PD					
09						4 • PAYLOADS					
10						4 • PAYLOADS					
11						4 • INCO					
12						4 • A/O UHF					
13						4 • FD					
14						4 • AFD CONF					
15						4 • PAYLOAD • SYSTEMS					
16						4 • PAYLOAD • SYSTEMS					
17						4 • FAO					
18						4 • FAO					
19						4 • SPAN					
20						4 • SPAN					
21						4 • PAYLOAD • DATA					
22						4 • PAYLOAD • DATA					
23						4 • P/L MFSR • P/L TO • OIS 133					
24						4 • P/L MFSR • P/L TO • OIS 133					
25						4 • PAYLOAD • CONF					
26						4 • PAYLOAD • CONF					
27						4 • OPS PLNR					
28						4 • OPS COORD					
29						4 • CREW OPS					
30						4 • CREW OPS					
31						4 • USER • SUPPORT • ROOM 1					
32						4 • USER • SUPPORT • ROOM 1					
33						4 • EXP 1 • OIS 164					
34						4 • EXP 2 • OIS 174					
35						4 • TD 1 • OIS 131					
36						4 • TD 4 • OIS 231					
37						4 • USER • SUPPORT • ROOM 2					
38						4 • USER • SUPPORT • ROOM 2					
39						4 • PLBK 1 • STS TO • OIS 131					
40						4 • PLBK 2 • ET/SR8 TO • OIS 135					
41						4 • PLBK 3 • OTD • OIS 232					
42						4 • PLBK 4 • ICOM A18 • 214 & 215					
43						4 • USER • SUPPORT • ROOM 3					
44						4 • USER • SUPPORT • ROOM 3					
45						4 • USER • SUPPORT • ROOM 4					
46						4 • USER • SUPPORT • ROOM 4					
47						4 • COMM • CONTROL					
48						4 • DISPLAY					

(PROPOSED)

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## SCIENCE PLNR (256-L,R)

HOR. ONE  
V. CIRCLE  
TYPE  
KEYSET  
CSL  
RM  
DATE  
CR

1 PABX (m)	2 PABX (T)	3 WX NET (m)	4 AIG 1 (m)	5 AIG 2 (m)	6 AIG 2 (H)
7 PD (m)	8 PD (T)	9 PAYLOADS (m)	10 PAYLOADS (T)	11 INCO (m)	12 AIG UHF (m)
13 FD (m)	14 AFD CONF (m)	15 PIL SYS (m)	16 PIL SYS (T)	17 MSN PLNG CONF (m)	18 MSN PLNG CONF (T)
19 SPAN (m)	20 SPAN (T)	21 PIL DATA (m)	22 PIL DATA (T)	23 PIL MPSR (m)	24 PIL MPSR (T)
25 PIL CONF (m)	26 PIL CONF (T)	27 OPS PLNR (T)	28 OPS COORD (m)	29 CREW OPS (m)	30 CRBW OPS (T)
31 USR 1 (m)	32 USR 1 (T)	33 PLBK 1 (m)	34 PLBK 2 (m)	35 PLBK 3 (m)	36 PLBK 4 (m)
37 USR 2 (m)	38 USR 2 (T)	39 EXP-1 (T)	40 EXP-2 (T)	41 TD-1 (T)	42 TD-4 (T)
43 USR 3 (m)	44 USR 3 (T)	45 USR 4 (m)	46 USR 4 (T)	47 GC CALL COMM CNTL (T)	48 DISPLAY (T)

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TRI55-25-089  
CCS POSITION DETAIL  
USER ORG: CH6/PAYLOADS

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CCS	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2272	256	27							213	C	V48HFD
01			M		Y	PABX	5624	PAYLOAD 7 (LEFT)			
02			M		Y	PABX	5623	5620			
03			M		Y	W • WEATHER • NET	L035				
04						(BLANK)					
05			Y		M	W • A/O 1	A169				
06			Y		M	W • A/O 2	1266				
07			Y		M	W • PD	L092				
08			M		Y	W • PD	L092				
09			Y		M	W • PAYLOADS	L097				
10			M		Y	W • PAYLOADS	L097				
11			Y		M	W • INCO	1022				
12			Y		M	W • A/G UHF	1271				
13			Y		M	W • FD	1290				
14			Y		M	W • AFD CONF	1295				
15			Y		M	W • PAYLOAD • SYSTEMS	L088				
16			Y		M	W • PAYLOAD • SYSTEMS	L088				
17			Y		M	W • FAO	L066				
18			M		Y	W • FAO	L066				
19			Y		M	W • SPAN	L066				
20			M		Y	W • SPAN	1244				
21			Y		M	W • PAYLOAD • DATA	L089				
22			M		Y	W • PAYLOAD • DATA	L089				
23			Y		M	W • P/L MP5R • P/L TD • OIS 133	1050				
24			M		Y	W • P/L MP5R • P/L TD • OIS 133	1050				
25			Y		M	W • PAYLOAD • CONF	L091				
26			M		Y	W • PAYLOAD • CONF	L091				
27			M		Y	W • OPS PLNR	L072				
28			Y		M	W • OPS COORD	L081				
29			Y		M	W • CREW OPS	L074				
30			M		Y	W • CREW OPS	L074				
31			Y		M	W • USER • SUPPORT • ROOM 1	1056				
32			M		Y	W • USER • SUPPORT • ROOM 1	1056				
33			M		Y	W • EXP 1 • OIS 164	1056				
34			M		Y	W • EXP 2 • OIS 174	1084				
35			M		Y	W • TD 1 • OIS 131	1005				
36			M		Y	W • TD 4 • OIS 231	1006				
37			Y		M	W • USER • SUPPORT • ROOM 2	1008				
38			M		Y	W • USER • SUPPORT • ROOM 2	1057				
39			Y		M	W • PLBK 1 • SIS TD • OIS 131	P040				
40			Y		M	W • PLBK 2 • ET/SRB TD • OIS 135	1249				
41			Y		M	W • PLBK 3 • OTD • OIS 232	1250				
42			Y		M	W • PLBK 4 • ICH A&B • 214 & 215	1251				
43			Y		M	W • USER • SUPPORT • ROOM 3	1058				
44			M		Y	W • USER • SUPPORT • ROOM 3	1058				
45			Y		M	W • USER • SUPPORT • ROOM 4	1059				
46			M		Y	W • USER • SUPPORT • ROOM 4	1059				
47			M		Y	W • GC CALL	1129				
48			M		Y	W • DISPLAY	L057				



TRISS-25-009  
CCS POSITION DETAIL  
USER ORG: CH6/PAYLOADS

S M O F T  
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CCS POSN	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2273	256	28						PAYLOAD 7 (RIGHT)	213	C	V49-FD
01			M		T	PABX	5624				
02			M		T	PABX	5623				
03			M		T	W • HEATHER • NET	L035				
04						(BLANK)					
05			Y		M	W • A/O 1	A169				
06			Y		M	W • A/O 2	1286				
07			Y		M	W • PD	L092				
08			M		T	W • PD	L097				
09			Y		M	W • PAYLOADS	L097				
10			M		T	W • PAYLOADS	L097				
11			Y		M	W • INCO	1022				
12			Y		M	W • A/O UHF	1271				
13			Y		M	W • FD	1290				
14			Y		M	W • AFD CONF	1295				
15			Y		M	W • PAYLOAD • SYSTEMS	L080				
16			M		T	W • PAYLOAD • SYSTEMS	L008				
17			Y		M	W • FAO	L066				
18			M		T	W • FAO	L066				
19			Y		M	W • SPAN	1244				
20			M		T	W • SPAN	1244				
21			Y		M	W • PAYLOAD • DATA	L089				
22			M		T	W • PAYLOAD • DATA	L089				
23			Y		M	W • P/L MPSR • P/L TD • OIS 133	1050				
24			M		T	W • P/L MPSR • P/L TD • OIS 133	1050				
25			Y		M	W • PAYLOAD • CONF	L091				
26			M		T	W • PAYLOAD • CONF	L091				
27			M		T	W • OPS PLNR	L072				
28			Y		M	W • OPS COORD	L001				
29			Y		M	W • CREW OPS	L074				
30			M		T	W • CREW OPS	L074				
31			Y		M	W • USER • SUPPORT • ROOM 1	1056				
32			M		T	W • USER • SUPPORT • ROOM 1	1056				
33			M		T	W • EXP 1 • OIS 164	1084				
34			M		T	W • EXP 2 • OIS 174	1085				
35			M		T	W • TD 1 • OIS 131	1086				
36			M		T	W • TD 4 • OIS 231	1088				
37			Y		M	W • USER • SUPPORT • ROOM 2	1057				
38			M		T	W • USER • SUPPORT • ROOM 2	1057				
39			Y		M	W • PLBK 1 • STS TD • OIS 131	P048				
40			Y		M	W • PLBK 2 • ET/SRB TD • OIS 135	1249				
41			Y		M	W • PLBK 3 • OIS 232	1250				
42			Y		M	W • PLBK 4 • ICOM A/B • 214 & 215	1251				
43			Y		M	W • USER • SUPPORT • ROOM 3	1058				
44			M		T	W • USER • SUPPORT • ROOM 3	1058				
45			Y		M	W • USER • SUPPORT • ROOM 4	1059				
46			M		T	W • USER • SUPPORT • ROOM 4	1059				
47			M		T	W • COMM • CONTROL	L032				
48			M		T	W • DISPLAY	L057				

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# EXPERIMENTS (257 - L, R)

HOR. ONE  
 V. CIRCLE  
 TYPE  
 KEYSET  
 CSL  
 RM  
 DATE  
 CR

1 PABX (m)	2 PABX (T)	3 MOCR SYS (m)	4 SDP TLM (T)	5 AIG 1 (m)	6 AIG 2 (m)
7 PD (m)	8 PD (T)	9 PAYLOADS (m)	10 PAYLOADS (T)	11 INCO (m)	12 AIG UHF (m)
13 FD (m)	14 AFD CONF (m)	15 PIL SYS (m)	16 PIL SYS (T)	17 EGIL (m)	18 EE COM/ EGIL (m)
19 DFE (T)	20 DFE PLBK (T)	21 PIL DATA (m)	22 PIL DATA (T)	23 PIL MPER (m)	24 PIL MPER (T)
25 PIL CONF (m)	26 PIL CONF (T)	27 INSTR COORD (T)	28 SSR 1 CONF (m)	29 SSR 1 CONF (T)	30 SSR 2 CONF (T)
31 USR 1 (m)	32 USR 1 (T)	33 PLBK 1 (m)	34 PLBK 2 (m)	35 PLBK 3 (m)	36 PLBK 4 (m)
37 USR 2 (m)	38 USR 2 (T)	39 EXP-1 (T)	40 EXP-2 (T)	41 TD-1 (T)	42 TD-4 (T)
43 USR 3 (m)	44 USR 3 (T)	45 USR 4 (m)	46 USR 4 (T)	47 GC CALL COMM CNTL (T)	48 DISPLAY (T)

USC Form 2171 (Sep 66)

TR155-25-089  
CCS POSITION DETAIL  
USER OR01 CHG/PAYLOADS

SHOFT  
FLY 001 VEM 102

PAGE 17  
09-15-79

CCS	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2274	257	27						PAYLOAD 8 (LEFT)	213	C	V48-FD
01			H		T	PABX	5084				
02			H		T	PABX	5623				
03			Y		M	4 • MOCR SYS	L079				
04			M		T	4 • SOP TLM	L125				
05			Y		M	4 • A/O 1	A169				
06			Y		M	4 • A/O 2	J286				
07			Y		M	4 • PD	L092				
08			H		T	4 • PD	L092				
09			Y		M	4 • PAYLOADS	L097				
10			M		T	4 • PAYLOADS	L097				
11			Y		M	4 • INCO	L022				
12			Y		M	4 • A/G UNF	J271				
13			Y		M	4 • FD	J290				
14			Y		M	4 • AFD CONF	J295				
15			Y		M	4 • PAYLOAD • SYSTEMS	L088				
16			M		T	4 • PAYLOAD • SYSTEMS	L088				
17			Y		M	4 • EOL	L018				
18			Y		M	4 • EECOM/ • EOL	L020				
19			M		T	4 • DFE	L106				
20			M		T	4 • DFE • PLAYBACK	L090				
21			Y		M	4 • PAYLOAD • DATA	L089				
22			M		T	4 • PAYLOAD • DATA	L089				
23			Y		M	4 • P/L MPSPR • P/L TD • OIS 133	I050				
24			M		T	4 • P/L MPSPR • P/L TD • OIS 133	I050				
25			Y		M	4 • PAYLOAD • CONF	L091				
26			M		T	4 • PAYLOAD • CONF	L091				
27			M		T	4 • INSTR • COORD	L078				
28			Y		M	4 • SSR 1 • CONF/ T/S • OIS 183	I082				
29			M		T	4 • SSR 1 • CONF/ T/S • OIS 183	I082				
30			M		T	4 • SSR 2 • CONF/PE-1 • OIS 161	I083				
31			Y		M	4 • USER • SUPPORT • ROOM 1	I056				
32			M		T	4 • USER • SUPPORT • ROOM 1	I056				
33			M		T	4 • EXP 1 • OIS 164	I084				
34			M		T	4 • EXP 2 • OIS 174	I005				
35			M		T	4 • TD 1 • OIS 131	I086				
36			M		T	4 • TD 4 • OIS 231	I008				
37			Y		M	4 • USER • SUPPORT • ROOM 2	I057				
38			M		T	4 • USER • SUPPORT • ROOM 2	I057				
39			Y		M	4 • PLBK 1 • STS TD • OIS 131	P048				
40			Y		M	4 • PLBK 2 • ET/SRB TD • OIS 135	I249				
41			Y		M	4 • PLBK 3 • OTO • OIS 232	I250				
42			Y		M	4 • PLBK 4 • ICOM AEB • 214 & 215	I251				
43			Y		M	4 • USER • SUPPORT • ROOM 3	I058				
44			M		T	4 • USER • SUPPORT • ROOM 3	I058				
45			Y		M	4 • USER • SUPPORT • ROOM 4	I058				
46			M		T	4 • USER • SUPPORT • ROOM 4	I059				
47			M		T	4 • OC CALL	I129				
48			M		T	4 • DISPLAY	L057				

S M O F T  
FLT 001 VEN 102

TR155-25-088  
CCS POSITION DETAIL  
USER OR01 CH6/PAYLOADS

CCS POSN	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2275	257	28						PAYLOAD 8 (RIGHT)	213		V49-F0
01											
02											
03											
04											
05											
06											
07											
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45											
46											
47											
48											

# POCC OPAQUE TV

CR \_\_\_\_\_ DATE \_\_\_\_\_ RM \_\_\_\_\_ CSL \_\_\_\_\_ KEYSET \_\_\_\_\_ TYPE \_\_\_\_\_ V. \_\_\_\_\_ HOR. \_\_\_\_\_  
CIRCLE ONE

1 PAYLOADS (m)	43 PAYLOADS (T)	37 PAYLOADS (T)	31 PD (m)	25 PD (T)	19 PIL MPSR (m)	13 PIL MPSR (T)	7 A/G 1 (m)	1 PABX
44 PIL CONF (m)	38 PIL CONF (T)	32 PIL DATA (m)	26 PIL DATA (T)	20 PIL SYS (m)	14 PIL SYS (T)	8 A/G 2 (m)	2 PABX	6 OPS PLNR (T)
45 WX NET (T)	39 USR 1 (T)	33 EXP-1 (T)	27 PLBK 1 (m)	21 SSR 1 CONF (m)	15 SSR 1 CONF (T)	9 A/G UHF (m)	3 FD (m)	5 (BLANK)
46 REPRO (T)	40 USR 2 (T)	34 EXP-2 (T)	28 PLBK 2 (m)	22 EECOM/ EGIL (m)	16 SSR 2 CONF (T)	10 INCO (m)	4 AFD CONF (m)	12 CREW PROC (T)
47 COMM CNTRL (T)	41 USR 3 (T)	35 TD-1 (T)	29 PLBK 3 (m)	23 EGIL (m)	17 MOCA CMD (m)	11 MOCA SYS (m)	11 MOCA SYS (m)	18 CREW OPS (m)
48 DISPLAY (T)	42 USR 4 (T)	36 TD-4 (T)	30 PLBK 4 (m)	24 FAO (m)	18 CREW OPS (m)	12 CREW PROC (T)	6 OPS PLNR (T)	

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S M O F T  
FLT 001 VEH 102

TR155-25-089  
CCS POSITION DETAIL  
USER ORG: CH6/PAYLOADS

CCS POSN	CONS	MD	PBI	CLR	T/M	LOOP LEGEND	LOOP DESIG	POCC OPTV	POSITION TITLE	ROOM NUM	REV	KEYSET TYPE
2276												
01	M				T	PABX	5624	5624		213	C	R48---
02	M				T	PABX	5623				C	
03	M				M	4 • FD	1290				C	
04	M				M	4 • AFD CONF	1205				C	
05	M				M	(BLANK)					C	
06	M				T	4 • OPS PLNR	L072				D	
07	M				M	4 • A/O 1	A169				C	
08	M				M	4 • A/O 2	1286				D	
09	M				M	4 • A/G UNF	1271				C	
10	M				M	4 • INCO	1022				C	
11	M				M	4 • MOCR SYS	L079				C	
12	M				M	4 • CREM • PROCEED	L082				C	
13	M				T	4 • P/L MPSR • P/L TD • OIS 133	1050				C	
14	M				T	4 • PAYLOAD • SYSTEMS	L088				C	
15	M				T	4 • SSR 1 • CONF/ T/S • OIS 183	1002				C	
16	M				T	4 • SSR 2 • CONF/PE-1 • OIS 161	1003				C	
17	M				M	4 • MOCR • CHD	L014				C	
18	M				M	4 • CREM OPS	L074				C	
19	M				M	4 • P/L MPSR • P/L TD • OIS 133	1050				C	
20	M				M	4 • PAYLOAD • SYSTEMS	L088				C	
21	M				M	4 • SSR 1 • CONF/ T/S • OIS 183	1002				C	
22	M				M	4 • EECON/ • EGIL	L020				C	
23	M				M	4 • EGIL	L018				C	
24	M				M	4 • PD	L066				C	
25	M				T	4 • PAYLOAD • DATA	L092				C	
26	M				T	4 • PLBK 1 • STS TD • OIS 131	L089				C	
27	M				M	4 • PLBK 2 • ET/SRB TD • OIS 135	P048				C	
28	M				M	4 • PLBK 3 • OTD • OIS 232	1249				C	
29	M				M	4 • PLBK 4 • ICOM A/B • 214 & 215	1250				C	
30	M				M	4 • PD	1251				C	
31	M				M	4 • PAYLOAD • DATA	L092				C	
32	M				M	4 • EXP 1 • OIS 164	L089				C	
33	M				T	4 • EXP 2 • OIS 174	1004				C	
34	M				T	4 • TD 1 • OIS 131	1005				C	
35	M				T	4 • TD 4 • OIS 231	1086				C	
36	M				T	4 • PAYLOADS	1088				C	
37	M				T	4 • PAYLOAD • CONF	L097				C	
38	M				T	4 • USER • SUPPORT • ROOM 1	L091				C	
39	M				T	4 • USER • SUPPORT • ROOM 2	1056				C	
40	M				T	4 • USER • SUPPORT • ROOM 3	1057				C	
41	M				T	4 • USER • SUPPORT • ROOM 4	1058				C	
42	M				T	4 • PAYLOADS	1059				C	
43	M				M	4 • PAYLOAD • CONF	L097				C	
44	M				M	4 • WEATHER • NET	L091				C	
45	M				T	4 • REPRO	L035				C	
46	M				T	4 • COMM • CONTROL	L182				C	
47	M				T	4 • DISPLAY	L032				C	
48	M				T		L057				C	

# PROGRAM MANAGER

TABLE TOP, RM. 213

CR \_\_\_\_\_ DATE \_\_\_\_\_ RM \_\_\_\_\_ CSL \_\_\_\_\_ KEYSET \_\_\_\_\_ TYPE \_\_\_\_\_ V. \_\_\_\_\_ HOR. \_\_\_\_\_  
CIRCLE ONE

1	2	3	4	5	6
PABX	PABX	FD (m)	AFD CONF (m)	SSPO (T)	SPAN (T)
7	8	9	10	11	12
AIG 1 (m)	AIG 2 (m)	AIG UHF (m)	FAO (m)	SSPO (m)	SPAN (m)
13	14	15	16	17	18
PD (T)	PL MDR PL TD (T)	PLBK 1 (m)	PLBK 2 (m)	PLBK 3 (m)	PLBK 4 (m)
19	20	21	22	23	24
PD (m)	PL MDR PL TD (m)	EXP 1 (T)	EXP 2 (T)	TD - 1 (T)	TD - 4 (T)
25	26	27	28	29	30
PAYLOADS (T)	P/L CONF (T)	USR 1 (T)	USR 2 (T)	USR 3 (T)	USR 4 (T)
31	32	33	34	35	36
PAYLOADS (m)	P/L CONF (m)	USR 1 (m)	USR 2 (m)	USR 3 (m)	USR 4 (m)
37	38	39	40	41	42
43	44	45	46	47	48

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## 'COMMUNICATIONS KEYSETS INPUT REQUIREMENTS FORM'

ROOM NO. 213

CCS POSITION: \_\_\_\_\_

CONSOLE NO. \_\_\_\_\_

MODULE LOCATION: \_\_\_\_\_

KEYSET TITLE PROGRAM MNGR

KEYSET TYPE: \_\_\_\_\_

PBI LOC	CLR	T/M	LEGEND	LOOP DESIG
01	W	T	PABX	5620
02	W	T	PABX	5823
03	Y	M	FD	I290
04	Y	M	AFD CONF	I295
05	W	T	SSPD	I110
06	W	T	SPAN	I244
07	Y	M	AIG 1	I270
08	Y	M	AIG 2	I286
09	Y	M	AIG UHF	I271
10	Y	M	MSN PLNG CONF	L066
11	Y	M	SSPD	I110
12	Y	M	SPAN	I244
13	W	T	PD	L092
14	W	T	PL MPSR PL TD OIS 133	I050
15	Y	M	PLBK1 STS TD OIS 131	I119
16	Y	M	PLBK2 ET/SRB TD OIS 135	I120
17	Y	M	PLBK3 OTD/OTC OIS 132	I121
18	Y	M	PLBK4 ICOM A+B OIS 214	I123
19	Y	M	PD	L092
20	Y	M	PL MPSR PL TD OIS 133	I050
21	W	T	EXP1 OIS 164	I084
22	W	T	EXP2 OIS 174	I085
23	W	T	TD 1 OIS 131	I086
24	W	T	TD 4 OIS 231	I088
25	W	T	PAYLOADS	L097
26	W	T	PAYLOAD CONF	L091
27	W	T	USER ROOM 1	I056
28	W	T	USER ROOM 2	I057
29	W	T	USER ROOM 3	I058
30	W	T	USER ROOM 4	I059
31	Y	M	PAYLOADS	L097
32	Y	M	PAYLOAD CONF	L091
33	Y	M	USER ROOM 1	I056
34	Y	M	USER ROOM 2	I057
35	Y	M	USER ROOM 3	I058
36	Y	M	USER ROOM 4	I059
37				
38				
39				
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41				
42				
43				
44				
45				
46				
47				
48				



# POCC VIEWING ROOM

CR \_\_\_\_\_ DATE \_\_\_\_\_ RM \_\_\_\_\_ CSL \_\_\_\_\_ KEYSET \_\_\_\_\_ TYPE \_\_\_\_\_ V. \_\_\_\_\_ HOR. \_\_\_\_\_  
CIRCLE ONE

1 A/G 2 (m)	2 A/G UHF (m)	3 PLBK 1 (m)	4 PLBK 2 (m)	5 PLBK 3 (m)	6 PLBK 4 (m)
7 A/G 1 (m)	8 INCO (m)	9 EXP 1 (m)	10 EXP 2 (m)	11 TD-1 (m)	12 TD-4 (m)
13 AFD CONF (m)	14 MOCR CMD (m)	15 MOCR DPS/GNC (m)	16 MOCR PROP (m)	17 MOCR DYN (m)	18 (BLANK)
19 FD (m)	20 SPAN (m)	21 FAO (m)	22 CREW OPS (m)	23 (BLANK)	24 (BLANK)
25 PD (m)	26 USR 1 (m)	27 USR 2 (m)	28 USR 3 (m)	29 USR 4 (m)	30 (BLANK)
31 PAYLOADS (m)	32 P/L CONF (m)	33 P/L DATA (m)	34 P/L SYS (m)	35 PL MPST PL TD (m)	36 (BLANK)
37	38	39	40	41	42
43	44	45	46	47	48

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## 'COMMUNICATIONS KEYSETS INPUT REQUIREMENTS FORM'

ROOM NO. 232

CCS POSITION: \_\_\_\_\_

CONSOLE NO. \_\_\_\_\_

MODULE LOCATION: \_\_\_\_\_

KEYSET TITLE POCC VIEWING ROOM

KEYSET TYPE: \_\_\_\_\_

PBI LOC	CLR	T/M	LEGEND	LOOP DESIG
01			(BLANK)	
02	Y	M	P/L MASA P/L TD	I050
03	Y	M	PAYLOAD SYS	L088
04	Y	M	PAYLOAD DATA	L089
05	Y	M	PAYLOAD CONF	L091
06	Y	M	PAYLOADS	L092
07			(BLANK)	
08	Y	M	USER SUPPORT ROOM 4	I059
09	Y	M	USER SUPPORT ROOM 3	I058
10	Y	M	USER SUPPORT ROOM 2	I057
11	Y	M	USER SUPPORT ROOM 1	I056
12	Y	M	PD	L092
13			(BLANK)	
14			(BLANK)	
15	Y	M	CREW OPS	L074
16	Y	M	MSN PLNG CONF	L066
17	Y	M	SPAN	I244
18	Y	M	FD	I290
19			(BLANK)	
20	Y	M	MOCR DYN	L077
21	Y	M	MOCR PROP	L076
22	Y	M	MOCR DPS/GNC	L015
23	Y	M	MOCR CMD	L014
24	Y	M	AFD CONF	I295
25	Y	M	TD 4 OIS 231	I088
26	Y	M	TD 1 OIS 131	I086
27	Y	M	EXP 2 OIS 174	I085
28	Y	M	EXP 1	I084
29	Y	M	INCO	I022
30	Y	M	AIG 1	I270
31	Y	M	PLBK 4	I123
32	Y	M	PLBK 3	I121
33	Y	M	PLBK 2	I120
34	Y	M	PLBK 1	I119
35	Y	M	AIG UHF	I271
36	Y	M	AIG 2	I276
37				
38				
39				
40				
41				
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44				
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46				
47				
48				

SECTION 10  
MISCELLANEOUS NON-CONSOLE DISPLAY/CONTROL DEVICES

(TBD)

SECTION 11  
LEVEL A, B, AND C REQUIREMENTS

The Statement of Requirements (SR's) in this section have been submitted for OSTA-1.

1. GSR-397: Real-Time Commands (RTC's) for payloads
2. GSR-456: Installation of doors in the POCC
3. GSR-530: Relocation of SMEK module
4. GSR-<sup>497</sup>~~(TBD)~~: POCC DTE displays
5. GSR-(TBD): THRIFT requirements

CH-78-156	SR	NO.	GSR-397	REVISION
		DATE	May 16, 1978	
TO:	ATTN:	FS/Chief, Ground Data Systems Division		
		FS5/Fred H. Wrinkle		
SUBJECT:		REQUIRED OPERATIONAL DATE		
Real-Time Commands (RTC's) for Payloads		OSTA-1 Mission/OFT-2		
		PRIORITY		

Background:

The number of RTC's (75 for storage and uplink) baseline in the OFT Level A documentation is insufficient to support the payload command and control function for the OSTA-1 mission.

Reference:

Level A OFT Requirements - Section 10.4.3.4.1

Requirement:

The MCC shall be capable of storing and executing 250 payload RTC's for the OSTA-1 mission. The RTC's will be premission defined in the Orbiter format. Command verification will be accomplished by monitoring payload system data and normal MCC orbiter command verification processing. No special processing is required.

CONCURRENCE:

Mission Manager

APPROVED BY	APPROVED BY	APPROVED BY	APPROVED BY
CH-78-156	CH-78-156	CH-78-156	CH-78-156
CH	CH	CH	CH
George W. S. [Signature]			

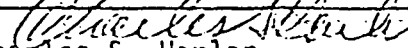

<div style="text-align: center; font-size: 2em; font-weight: bold;">SR</div>		NO.	REVISION
		GSR-456	
CH6-78-120		DATE	
		February 12, 1979	
TO:	ATTN:		
FS/Chief, Ground Data Systems Division		FS2/K. Ramke	
SUBJECT:		REQUIRED OPERATIONAL DATE	
		OFT-2	
Installation of Doors in the POCC		PRIORITY	

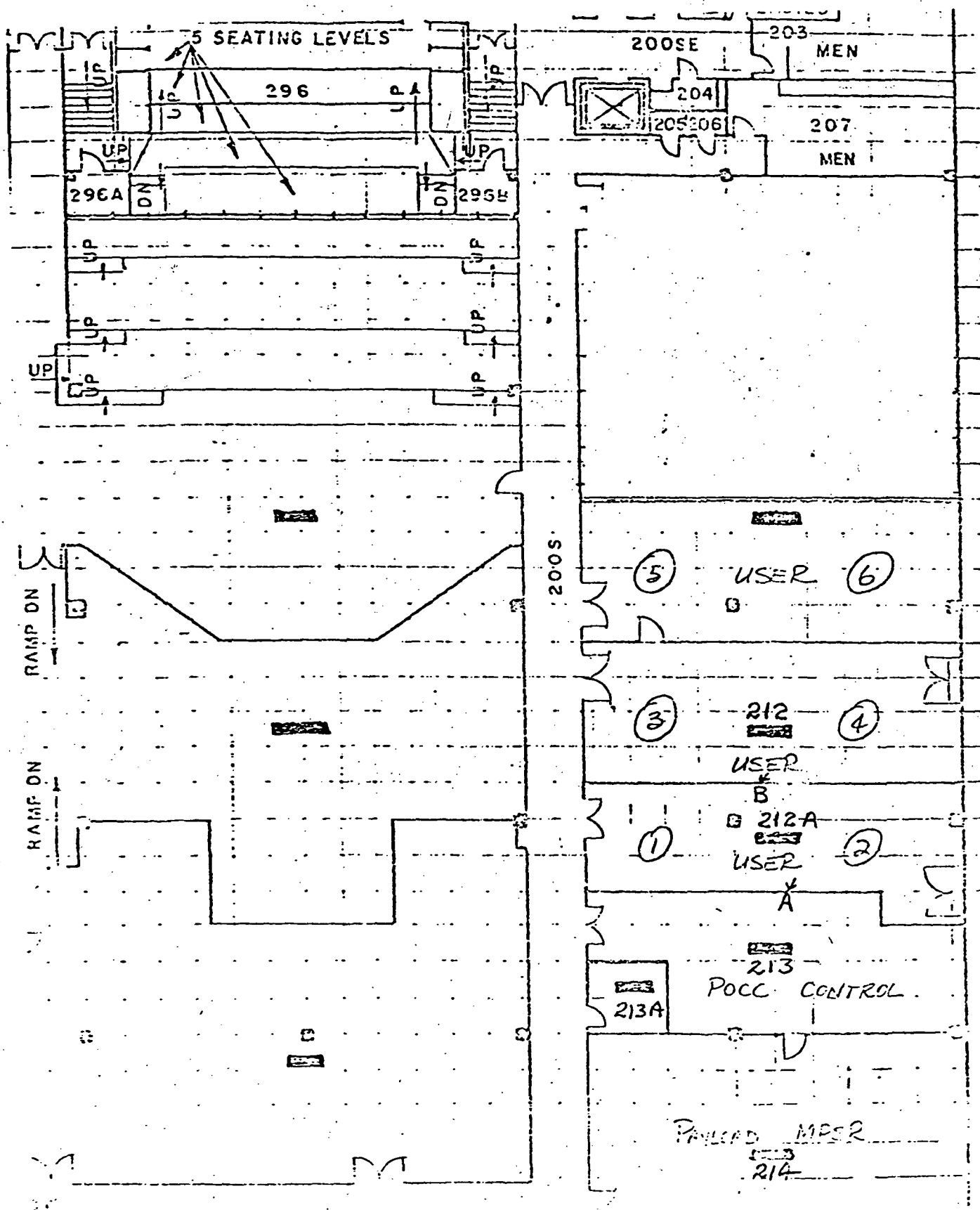
Background:

Quick and easy access is required between the Payload Control Room and the User Rooms. Presently, the only access to the User Rooms from the Payload Control Room is via the hallway which is not conducive to good operations. P-tubes are not available in all User Rooms for the easy transfer of information.

Requirement:

Install doors as indicated on the enclosed layout at points A and B. the doors are to open into rooms 212A and 212.

PREPARED BY:		APPROVED:			
CH63/Mason Hagan		 Charles S. Harlan (DIVISION CHIEF)			
CONCURRENCE:	CB	CC	CF	CG	CH
	X	X		X	
APPROVED:					
(Director of Flight Operations)					



CH6-79-214	<b>SR</b>	NO.	GSR-530	REVISION
		DATE	October 10, 1979	
PS/Chief, Ground Data Systems Division		ATTN: FS2/D. N. Hogg		
SUBJECT:		REQUIRED OPERATIONAL DATE		
Relocation of SMEK Module		STS-2		
		PRIORITY		

Background:

Current configuration of the JSC POCC consoles provides one Summary Message Enable Keyboard (SMEK) module located in User Support Room 1. Evaluation of operating procedures indicate that a single point of contact is needed to provide coordination and control of all POCC SMEK requirements. This point of control should be located in the Payload Control Room.

Requirement:

Move the SMEK module from console 250 (PAYLOAD 1) to console 257 (PAYLOAD 8).

(See enclosure)

PREPARED BY:		APPROVED:		OCT 9 1979	
CH63/J. E. Wallace		(DIVISION CHIEF)		Charles S. Hartan	
Concurrence:	CB <input checked="" type="checkbox"/>	CC <input checked="" type="checkbox"/>	CF <input checked="" type="checkbox"/>	CG <input checked="" type="checkbox"/>	CH <input checked="" type="checkbox"/>
APPROVED:					
(Director of Flight Operations)					





CH6-79-101	SR	NO. GSR-497	REVISION
		DATE MAY 2 1979	
TO: FS/Chief, Ground Data Systems Division		ATTN: FS4/G. E. Peter	
SUBJECT: OSTA-1 Displays		REQUIRED OPERATIONAL DATE Prior to OFT-2 Simulations	
		PRIORITY	

This SR contains DTE displays to support the OSTA-1 payload currently manifested for STS-2. The displays are as follows:

<u>MSK</u>	<u>TITLE</u>	<u>SMEK</u>
3320	Payload Summary	
3321	Exp. History 1	062
3322	Exp. History 2	062
3323	SIR-A	
3324	SIR-A History 1	062
3325	SIR-A History 2	062

CONCURRENCE:

*CGF 5/2/79*  
Mission Manager

PREPARED BY: CH63/B. J. Dunbar		APPROVED: (DIVISION CHIEF) <i>Charles S. Harlan</i> MAY 1 1979			
Concurrence:	CB <i>/</i>	CC <i>/</i>	CF <i>/</i>	CG <i>/</i>	CH <i>/</i>
APPROVED: (Director of Flight Operations) <i>/</i>					

✓  
□ □ □

DOGMT	0000:00:00:00:00:00	CNET	0000:00:00:00:00:00	SITE	0000:00:00:00:00:00
RGMT	0000:00:00:00:00:00			SM	0000:00:00:00:00:00
				QI	0000:00:00:00:00:00
				SM	0000:00:00:00:00:00

SECRET

5	PR	0000
6	TR	0000

# MAPS

KZ PWR  
W/B  
OPR

K8 PWR  
RAD PWR  
RAD OP PWR  
XMTX  
T ADV  
FILM MTN  
CAL  
ESS  
GAIN  
STC

4-1215

```
IN BUS          00.0 VDC
SBY CUR         0.00 A
OPR CUR         0.00 A
XMTR FWD        0000 W
RFL             0000 W
FILM TEMP       ±000 OF

PRF             0
GAIN LVL        00 db
STC POS         00
```

١٥

```

XK3 PWR      000
TOT CUR      00.0 A
DATA DC      000
SCNR DC      000
SCNR AC      000
SCNR AC CUR  0.00 A
DOOR         00
SCAN         000
CH 1 VIDEO   000
PCM          000
PCM SYNC     000
MEEA ELEC T  000 OF
MEEA BASE T  000 OF
SCNR BASE T  000 OF

```

DE  
DE  
IN  
Σ  
U1

```

K4 PWR          0000
COVER OP/CL    0 0
MDM AUTO CMD   0 0
MODE           0000
CAL            0000
DET TEMP       0000
FLTR WHL       0000
CAMERA         0000
CAM HOU P      0000

```

1-3333333333

SPEED  
MODE  
MOTION

FV 1000  
OMET 000:00:00:00

EXP HISTORY 1

3321

OMET 300:00:00:00	01 000 00 GN 000 00 SM 000 00 BF 000 00	PAGE 1
SITE 0000	LOW	HIGH

```

OCE
X1049 K3 PWR
XC0097 TOT CUR
X00080 DATA DC
X00081 SCNR DC
X00082 SCNR AC
XC0096 SCNR CUR
X00075 DOOR
X00076 SCAN
X00077 CH 1 VIDEO
X00078 PCM
X00079 PCM SYNC
T00092 MEA ELEC T
T00091 MEA BASE T
T00090 SCNR BASE T
SMIRR
X1052 K4 PWR
X00118 COVER OP
X00119 COVER CL
X00105 MDM AUTO CMD
X00120 MODE
X00117 CAL
X00116 DET TEMP
X00115 FILT WHL
X00122 CAMERA
X00121 CAM HOU P
MAPS
X1046 K2 PWR
X00060 W/B
X00061 OPR
P/L REC
SPEED
MODE
MOTION
OGMT D:D:H
M:S
RGMT D:D:H
M:S

```

F/V /000  
 OMET 000:00:00:00 SITE

EXP HISTORY 1

3322  
 01 000 00 GN 000 00 SM 000 00 BF 000 00 PAGE 2

X1049 K3 PWR	000	
C0097 TOT CUR	000	
X0080 DATA DC	00.0	
X0081 SCNR DC	000	
X0082 SCNR AC	000	
C0096 SCNR CUR	0.00	
X0075 DOOR	00	
X0076 SCAN	000	
X0077 CH 1 VIDEO	000	
X0078 PCM	000	
X0079 PCM SYNC	000	
T0092 MEA ELEC T	°F	
T0091 MEA BASE T	°F	
T0090 SCNR BASE T	°F	
SMIRR	±000	
X1052 K4 PWR	000	
X0118 COVER OP	00	
X0119 COVER CL	00	
X0105 MDM AUTO CMD	0	
X0120 MODE	000	
X0117 CAL	000	
X0116 DET TEMP	000	
X0115 FILT WHL	0000	
X0122 CAMERA	0000	
X0121 CAM HOU P	0000	
MAPS	0000	
X1046 K2 PWR	000	
X0060 W/B	000	
X0061 OPR	000	
P/L REC	0	
SPEED	0000	
MODE	0000	
MOTION	0000	
OGMT D:H	000:00	
RGMT M:S	:00:00	
RGMT D:H	000:00	
RGMT M:S	:00:00	

F/V /000

SIR-A

3323

OGMT 000:00:00:00 OMET 000:00:00:00 SITE 000 01 000 00 GN 000 00  
RGMT 000:00:00:00 SM 000 00 BF 000 00

K8 PWR 000  
RAD PWR 000  
RAD OP PWR 000  
XMTR 000  
T ADV 000

IN BUS 00.0 VDC

AMPS

SBY 0.00  
OPR 00.0  
P9 0.0  
P13 0.0  
P14 0.0

XMTR PWR 0000 W  
FWD 0000 W  
RFL 0000 W

OPT REC

OPR 000  
SWP 000  
ADV 000  
FILM MIN 0000

TEMPS OF

FILM 000  
OPT REC 000  
RCVR 000  
F/R PWR 000  
PA A 000  
PA B 000  
PA C 000  
BASE 000

REMAIN 0000 FT

MODE

ESG 0000  
GAIN 000  
STC 000  
CAL 000  
MUX 0

PRF 0  
GAIN LVL 00 db  
STC POS 00  
CAL LVL 00.0 VDC  
INT ECHO 00 MW  
VIDEO 000 dbMW

ADD 0000000000

F/V		/000		OMET 000:00:00		SIR-A HISTORY 1		3324		PAGE 1	
								LOW		HIGH	
X1051	RAD PWR										
X1052	RAD OP PWR										
X1053	XMTR										
X1058	T ADV										
V0217	IN BUS										
C0209	SBY										
C0210	OPR										
C0205	P9										
C0207	P13										
C0208	P14										
E0201	XMTR RFL										
E0202	XMTR RFL										
X0154	O/R OPR										
X0155	O/R SWP										
X0156	O/R ADV										
X0157	O/R F MTN										
H0239	FILM REM										
E0200	INT ECHO										
C0206	VIDEO										
X0174	ESG										
U0190	PRF										
X0165	GAIN LVL										
U0191	STC										
X0172	STC POS										
D0192	CAL LVL										
X0173	CAL LVL										
V0216	FILM										
T0226	OPT REC T										
T0228	RCVR T										
T0222	F/R PWR T										
T0221	PA A T										
T0223	PA B T										
T0224	PA C T										
T0225	BASE										
T0227											





SECTION 12  
USER-SUPPLIED GROUND SUPPORT EQUIPMENT

The information in this section indicates the user Ground Support Equipment (GSE) that will be installed in the POCC for OSTA-1.

(TBD)

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